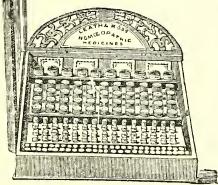


BECOMING AGENTS

are requested

Agents for L. & R.'s Medicines are now established in every town of any importance in England, some of the principal towns in Ireland and Scotland, several of the British Colonies, and India and America. Upwards of 1,800 persons have accepted the Agency, and many have found this branch a profitable auxiliary to their other business.

Our Agents' GLASS-TOP SHOW CASE, As it appears open.



TRADE PRICE £4 4s. ONTENTS DEATISE 27 1a 9 STREET VERE

Wholesale Department.

THE NEW FAMILY CHEST Contains 28 Bottles of the most useful Homœopathic Medicines, a Guide, giving the treatment of all common complaints, the uses of the Medicines, proper doses, &c. In the lid are the two externals most in use, viz., Arnica and Calendula. It can be fitted to hold either Pilules or Tinctures. Price 25/; trade price, 16/8.

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	LEATH & ROSS'S WHOLESALE PRICE LIST OF MEDICINES, ETC PUT UP READY FOR SALE.	ij				
G	OBULES—Medicated any strength up to the 30th potency. PILULES—Medicated to any strength up to the 30th potency. Sixpenny Tubes, 3/- per dozen. Sixpenny Bottles, 3/- per dozen. Ninepenny ,, 4/6 ,, Ninepenny ,, 4/6 ,, Shilling ,, 6/- ,, Shilling ,, 6/- ,,	otency				
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EXPORT ORDERS ARE DESPATCHED WITH THE GREATEST PROMPTITUDE. Special quotations for large quantities.						
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Agents' Counter Cases, £2|2|0, £3|3|0, £4|4|0, £6|6|0, and £10|10|0.



MEDALS AWARDED TO VASELINE. BY AMERICAN INSTITUTE.

Bronze Medal, 1874. Silver Medal, 1875. Medal of Superiority, 1877.

SILVER MEDAL. Exposition Universelle, Paris, 1878.

GRAND MEDAL AND DIPLOMA, Philadelphia, 1876.

CAUTION.

We must again caution the Trade against imitations of "Vaseline," made, apparently, by mixing Paraffin Oil with Paraffin Wax.

Every pharmacist knows that it is impossible to make a satisfactory homogeneous Ointment by mixing with a lard that is "grainy." The paraffin initiations of Vaseline may be distinguished by their odour, taste, and by the grainy or erystalline structure which is very evident to the eye when compared with the jelly-like smoothness of true Vaseline.

To prevent adulteration, &c., we put it up, for the convenience of the Trade, in 11b. and 51b. Tins, with our name stamped thereon; and we beg that it may be ordered in our packages.

VASELINE is the only known substance which possesses ... the following named qualities, viz. :-

After being liquefied, it regains all its primitive properties on cooling. It will not crystallise, oxidise, or become rancid, and is absolutely free from odour or taste. As an emollient it has no rival, as it is the only known substance which will not irritate the skin. Not being a DISTILLATE of Petroleum, it is perfectly harmless when introduced into the system.

VASELINE is in general use in the Hospitals of England, Europe, and America, and is endorsed by the entire Medical Press and Profession throughout the World as the best basis for ointments, and for use in Ocular Therapeutics, Surgery, Dressing of Wounds, and Obstetrics. In Eczema, Tetter and Ulcerated Surfaces, Rheumatic Swelling of the Joints, Chilblains, and numerous other troubles, it ranks among the most valuable of remedics.

As an emollient, VASELINE is superior to any other substance yet discovered. Its marvellous healing and restoring qualities excel everything else, and it is rapidly taking the place on the toilet table to the exclusion of the various complexion powders, pomades, cosmetics, and other compounds. It will keep the skin clearer, softer, and smoother than any cosmetic ever invented, and will preserve the youthful beauty and freshness of the healthy complexion.

The following articles are put up for Medicinal and Toilet purposes, and will be jound superior to anything heretofore introduced :-

> NET PRICE LIST.

	(VASELINE (Pure) FOR MEDICINAL US	Bottles, in fancy card cases, 3 sizes, 5s., 16s., and 33s. per dozen; in boxes (wood) of 1 dozen			
RED	POMADE VASELINE FOR THE HAI	and of $\frac{1}{2}$ dozen.			
	CARBOLATED VASELINE	 Vaseline with 3 per cent. Carbolic Acid. Bottles, in fancy card case, 16s. per dozen; in boxes (wood) of ½ dozen, 116 tins, 2s. 6d. 			
LH	CERATED VASELINE	• In 1-lb. Tins, 28. 6d.			
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DE	VASELINE CAMPHOR ICE	• { Fancy Paper Boxes, 8s. per dozen; in boxes of 1 dozen.			
RJ	VASELINE TOILET SOAP · ·	• {98. per dozen Tablets, less 15°, discount; in boxes of 3 tablets.			
1	VETERINARY VASELINE	1-lb. Tins, 24s. per dozen; in boxes of ½ dozen.			
For the convenience of Chemists in dispensing, "Vaseline" and "Veterinary Vaseline" are put up in 5-lb. Tins.					

The process by which Vaseline is made is protected by Letters Patent, and "Vaseline" is our registered Trade Mark. None genuine except in our Packages.

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NOTA BENE. — ABOVE-MENTIONED CORRECTED QUOTATIONS APPLY ONLY FOR ORDERS RECEIVED DURING PRESENT MONTH (DECEMBER).

MALTINE

(EXTRACT OF MALTED BARLEY, WHEAT, AND OATS).

The ORIGINAL and ONLY Preparation composed of these Three Cereals.

MALTINE is a highly concentrated extract of malted *Barley*, malted *Wheat*, and malted *Oats*, containing undiminished and unimpaired, all the nutritious principles that can be extracted from these cereals. By the most carefully conducted scientific process we are enabled to offer a perfect article, possessing *five* to *ten times* the beneficial and nutritive merit of any alcoholic or fermented Extract of Malt.

From The CHEMIST AND DRUGGIST.

This preparation differs from others of a similar class by being not an extract of barley malt only, but an extract of malted *barley, wheat*, and *oats*. Thus, it is claimed, the elements necessary to life are presented in their most perfect form. The 'Maltine'' is also produced *in vacuo* at a temperature of not more than 120° Fahr., a distinct advantage when albuminous substances have to be treated.''

We manufacture the following Preparations, the Formulas and Doses of which are printed on the Labels attached to each Bottle.

MALTINE. MALTINE with Cod-Liver Oil. MALTINE with Cod-Liver Oil and Pancreatine. MALTINE with Cod-Liver Oil and Phosphates. MALTINE with Hypophosphites. MALTO-YERBINE. MALTINE with Pepsine and Pancreatine. MALTINE WINE with Pepsine and Pancreatine. MALTINE WINE. MALTINE with Alteratives. MALTINE Ferrated. MALTINE with Beef and Iron. MALTINE with Phos. Iron, Quinia and Strychnia. MALTINE with Phosphates, Iron and Quinia. MALTINE with Phosphates.

MALTINE and COMPOUNDS, in bottles containing 8 and 16 fluid ounces, equal to 12 and 24 ounces by weight, 2/9 and 4/6. The Compounds, 3/6 and 6/6. Also Winchester Quarts, 120 ounces by weight, 20/- and 29/-.

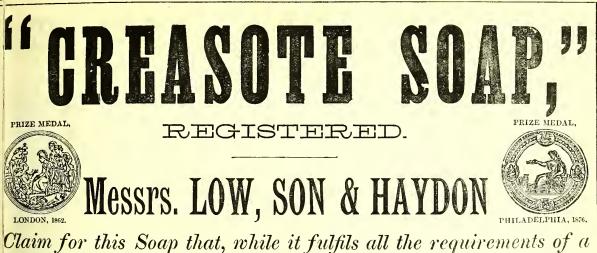
CAUTION.—Owing to spurious attempts at imitation, examine each Bottle, and see that the Capsule is marked—"THE MALTINE MANUFACTURING COMPANY, LIMITED," none is genuine without this.

The MALTINE MANUFACTURING COMPANY (Limited), GT. RUSSELL STREET BUILDINGS (corner of Gt. Russell and Charlotte Streets), LONDON.



FEB. 14, 1880.

7



Jood Toilet Soap, it has especial virtues in cases of cutaneous lisease and as a preventative against contagion, so that where any risks are incurred (and none are entirely free from them) it becomes a most desirable Soap for the DAILY use of all. It is offered to the public with every confidence in its intrinsic merits, in the belief that it will be duly appreciated, and command an extensive sale. Attention is called to the following Extracts from the Medical Press—

From The Lancet, July 19, 1879.—"This Soap contains a large proportion of creasote and other allied substances, and doubtless possesses considerable antiseptic properties; there is therefore a large field for ts use."

From The Medical Times and Gazette, September 20, 1879.—"The Soap has a faint (and therefore not lispleasing) odour of creasote, is well made, and ought, by virtue of the antiseptie properties of the preasote, to be useful and popular."

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EACH TABLET IS SEPARATELY WRAPPED. PRICE per dozen, 3/6, or per gross, 36/-.

FAMILY BROWN WINDSOR SOAP,

At 60/- per cwt., Genuine, and sweetly perfumed.

This Soap is recommended to the Trade as the best value that can be obtained. Embossed Squares, 6 to lb., and in 14-lb. Boxes.

CASH DISCOUNT, 10 PER CENT.

R. LOW, SON & HAYDON, Perfumers, Toilet Soap Makers, and Brush Manufacturers, 330 STRAND (SOMERSET HOUSE), LONDON.

COBDEN'S QUININE AND PHOSPHORUS PILLS. THE NEW TONIC,

- **PHOSPHORUS** is the life-giving clement in the blood, and the thought-giving power of the brain. Iu eonjunc-tion with Quiulne it is one of the most powerful curative agents known. All nervous diseases mean a want of Phos-phorus in the brain and nerve centres, and to cure them is to reintroduce the deficient property.
- OBDEN'S Pills (Quinine & Phos-phorus) have been invented to accomplish this end, and there are now many thousands who can testify to the success of this mode of treatment. If your brain is overworked, your pergramatic and suffer from your nerves instrung, if you suffer from nervous or general debility, or feel a want of vigour and vitality, try a courso of
- O'BDEN'S Pills (Quinine & Phos-phorus). Mr. G. OSBORNE, Coming Events Office, Fleet Street, London, writes, Octo-ber 31, 1877 :--- "Having taken 'Cobdeu's Pills' for ashort time, I find myself greatly improved in health. They have had a wonderful effect on my nerves."

COBDEN'S Pills (Quinine & Phos-phorus). Produce appetite and a healthy digestion. Renew the strength. Renovate the failing power. Remove sensations of fatigue. Produce sensations of exhilara-tion. Cause no after depression. Increase the capacity for mental and physical exer-tior. Produce cheerfulness. Give a cool-ness and dexterity to the mind. Confer freshness, originality, aud energy on the mental processes. Produce sensations of increased muscular power. Stimulate the uerve power. nerve power.

COBDEN'S Pills (Quinine & Phos-phorus). Mr. HOWARD PAUL 271 Strand, London, writes, October 3, 1877 :--- " I beg to testify to the efficacy of 'Colden's Pills.' They are an excellent tonic and nerve stimulaut, and most useful in relieving summant, and most useful in relieving the lassitude that frequently follows extra mental or bodily exertion. I have been considerably benefited in my general health by their use, and recommend them to my friends as opportunities occur."

COBDEN'S Pills (Quinine & Phos-phorus). Mr. W. RANDALL, f Sanger's Amphitheatre, writes, October 8, 1877:-"I have derived immense benefit from taking' Cobden's Pills.' For a long period I had been a martyr to nervous debility, and the existence I endured was sometimes unbearable. After taking them three weeks I am a new man. I eat well and sleep well, and giddiness, timidity, and lassitude have entirely gone."

OBDEN'S Pills (Quinine & Phos-phorns). Are invaluable as a stimulant or brain tonic. They act, not as a stimu-lant only, but as a substitute, to some ex-tent, for rest. A couple taken an hour or so before cessation of the day's work are found to remove sensations of fatigue, to give a clearness and dexterity to the mind, to produce any efficient and a to the mind, to produe appetite and a healthy digestion, and to conduce subsequently to the quict sleep of which over-work so constantly deprives those whose occupation is mental.

COBDEN'S Pills (Quinine & Phos-phorus) Mr. R. J. HAMILTON, 7 Salford Terrace, Tonbridge, writes, Jaunary 29, 1878:--"I can testify to their (* Cobden's Pills') being most valuable in relieving severe pains in the head, as also for Neuralgia."

COBDEN'S Pills (Quinine & Phos-phorus). They act directly on the blood, vitalising and enriching it to a surprising degree, building up the system, and throw-ing off the germs of disease. They thoronghly recruit the general bodily health, and restore the nervons system to a proper healthy condition, no matter from what cause impaired.

COBDEN'S Pills (Quinine & Phos-phorns). Should be adopted by all ab-stainers as having a better and more last-ing effect as a stimulant than alcohol, without possessing any of its terrible con-sequences. They have a certain and speedy effect in repairing the partial dilapi-dations Time or Intemperance may have effected on the system. They fortify it against contagion, and infuse health and vigont to resist disease. vigonr to resist disease.

COBDEN'S Pills (Quinine and Phosphorns). The Rev. JOHN SHEWARD, writes from Milton, Sitting-bourne, Kent, October 29, 1878:---"I am happy to inform yon of the great benefit I have derived from your' Cob-den's Quinine and Phosphorus Pills.' I have been a sufferer for many months from extreme diarrhora, great weakness, and severe mental depresweakness, and severe mental depres-sion; my nerves were so shattered that I dreaded the simplest duties, and that I dreaded the simpless duties, and lost all energy and pleasure in the performance of them. The despon-dency I endured became almost un-bearable. I tried so many things with-out avail, that I began to fear my com-plaint would refuse to yield to any treat-ment. I saw your Pills advertised, but wultitle fifth prevanted me sanding for ment. I saw yonr Pills advertised, but my little faith prevented mesending for them until the 7th inst., when I deter-mined to try a 2x. 9d. box. The only thing that I now regret is that I dil not send for them sooner. I have been taking them just over a fortnight, and the change in my health for the better is very marked. I have lost that horrible depression, my nerves are much stronger, and my general health very mnch improved. I cannot express how truly thankful I feel for the remarkable and pleasing change. I shill continue to take the Pills, and always resort to them on the first in-timation of failing health."

- **OBDEA'S Pills (Quinine & Phos**-phorus). Vitalise, purify, and curich the blood. Regulate the supply of blood to diseased nerves. Nonrish diseased spinal nerves. Act as a brain tonic. Act as a general tonic. Are infallible in Neuralgia. Invigorate the whole system. Are the best tonic. They afford a ready mode of gaining strength. Are pre-eminent as a means of gaining appetite. Particularly useful for delicate females. Powerfully assist the digestive organs. Throw off germs of all diseases, and thoroughly re-cruit the general bodily health. cruit the general bodily health.
- **OBDEN'S Pills (Quinine & Phos**-phorus). May be considered a specific in Neuralgia. Their remarkably rapid and lasting effects in this complaint are per-haps their most striking therapeutical power. In this as in that of some other diseases, they exert a double power; in some instances merely regulating the blood supply to the affected nerves—in others acting in addition as a tould or nourisher of the diseased spinal nerves, or of the affected nerves themselves. Three doses will invariably cure.

COBDEN'S Pills (Quinine & Phos-phorms) increase the capacity for mental and physical exertion. If the patient has the dose while in a state of fatigne, then he feels his strength renewed; if while in a state of despondency he takes a more cheerful view of things. A state of de-pression does not ensue; therefore, whilst acting as a stimulant they differ from all other stimulants, as they leave no distress-ing after effects. ing after effects.

2/9 and 4/6.

- YOBDEN'S Pills (Quinine & Phos-phorns). Mr. H. COLERV, Schoolmaster, Nutley School, Uckfield, writes, October 25, 1877 :---''I can speak most highly of your 'Cobden's Pills' as a cure for Neuralgia and severe pains in the head. My sister suffered much for months, without finding auy relief from other advertised remedies, till she tried a few doses of the Pills, which completely cured her. This was in May last, and she has not had a roturn of the pain. I have recommended them to several of my friends, and shall continue to do so, as I am thoroughly convinced of their therapentical value."
- COBDEN'S Pills (Quinine & Phos-phorus).—Mr. RICHARD ROBINSON, School-master, All Saints' School, Crawley Down, Crawley, writes, November 19, 1877 :--"1 and my wife took 'Cobden's Pills,' and have derived considerable benefit from them-especialty me. My appetite is in-creased, and I work better, sleep better, feel more 'a master' than I have for some years, and I am very pleased with and thankful for the results."

COBDEN'S Pills (Quinine & Phos-phorus). Assist the digestive juices to convert what we eat and drink into healthy matter, so as to afford proper nonrishment to the body. Are most neseful in allaying the nervous, irritable, and weakly state occasioned by over brainwork, mental anxiety, loss of rest, violent shocks, fast living, overtaxing the powers, or from any of the canses combined under the head of "indiscretions of youth." They are easy-to take, being very small and perfectly tasteless. They are prepared with the greatest care by duly qualified Chemists, with improved machinery and all the underu appliances for producing perfect admixture.

OBDEN'S Pills (Quinine & Phos-phorus). Are food for the brain, blodd, and nerves. Are a specific in Agne. Are infallible for all Low Fevers. Are a pre-ventative of Contagion. Are very useful in Rheumatism. Are given with success in Gout. Are the best remedy for falling powers. They cure depression of spirits. Cure pains in the back, Cure Blod Poisons, Cure Melancholia. Chre Skin Ernptions, Cure Languidness. Cure Im-potence. potence.

SPECIAL NOTICE.

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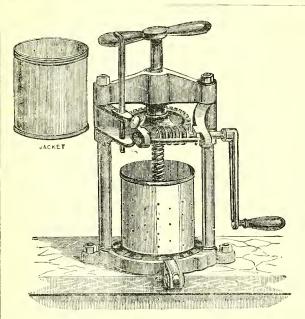
Arrangements will be made with gentlemen Arrangemeuts will be made with gentlemen nuclertaking the Agency and ordering not less than £5 worth for a local honse to honse distri-bution of handbills bearing their names and addresses. Special arrangements as to advertis-ing the names of agents abroad. Handbills in any language.

All Wholesale Houses, or of the Sole Proprietors, THE SUSSEX DRUG COMPANY, 135 Queen's Road, Brighton. **Feb. 14, 1880.**



Feb. 14, 1880.

NEW DOUBLE-ACTION TINCTURE PRESS.



THIS Press is intended to supply a want to which attentior has recently been directed in the leading journals of Pharmacy, and to place within the reach of Chemists and Druggists a means of removing the maximum amount of meustruum from the marc of Tiuctures, and the various preparations for which pressure is required in the Pharmacentical Laboratory, by the exertion of a power hitherto unattainable without resort to Hydraulics, and at a cost but slightly exceeding that of the ordinary Tincture Press.

The miuimum power of an ordinary one-gallon press is admitted to be about four tons, the pressure obtained by the action of the simple horizontal lever and screw; whereas by the further application of the side lever, spiral screw, and cog wheel with which this Press is furnished, the pressure is increased in a ratio of SIX TO ONE, thus giving an equivalent of 24 tons as the least force exerted upon the whole area of the Press, and this after making a MORE THAN USUAL allowance for friction.

The Bed of the Press is furnished with numerous divisions, converging to a central chanuel, by which the liquid is conveyed through a spout projecting from it, and furnished with a lip upon which the vessel used as a receptacle can be suspended, and the perforated Cylinder is encased in an iron jacket to prevent the escape of the liquid when the Press is in operation.

In order to steady the horizontal lever whilst the Press undergoes the force resulting from the application of the side lever, a strong iron clamp is attached, adjusted by a thumb-screw, as shown in illustration.

Subjoined will be found a few of the many Testimonials received from Purchasers.

DIRECTIONS FOR USE.

The following simple directions, carefully followed, will be found to result satisfactorily.

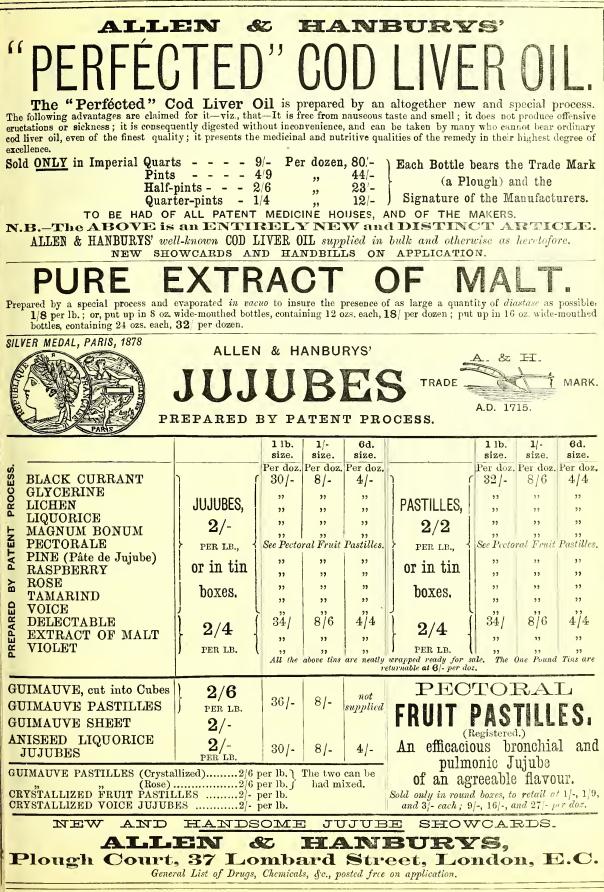
Let the Press be FIRMLY SECURED to the slab or table upon which it is to work. Oil the bright parts thorcughly with sweet oil, hubricate the black working parts with free grease, such as goose grease, neat's-foot oil, or tallow, to either of which the addition of a little black lead will be advantageous. For all purposes where a simple pressure is required, use the horizontal lever, and in cases where the extra power is required, apply the side lever after the horizontal lever has been fully exerted.

N.B.- Always relieve the Screw by means of the Horizontal Lever.

1 GALLON £4 0 0 2 GALLON £5 10 0	THE TRADE. 3 GALLON £7 15 0 4 GALLON £11 0 0 L DISCOUNT.			
TESTIM 101 HIGH HOLBORN, LONDON, W.C., Messrs, LYNCH & Co, GENTIEMEN,—We beg to say we have used your New Tincture Press with the greatest success for small quantities : we use hydraulic power for the larger preparations. We can with confidence testify as to the strength of the little press we hal from you. We remain, gentlemen, yours faithfully, We remain, gentlemen, yours faithfully, HIGH STREEF, STOKE NEWINGTON, GENTLEMEN,—The Double-Action Tincture Press yon supplied me with last year is a decided success. I have used it several times with emaily	O IN I A L.S. 2 LONDON STREET, NORWICH, Jane 2nd, 1874. GENTLEMEN,Enclosed you have cheque for Press, which I am much pleased with. I should be afraid to say how little waste we had in pressing off four gallons Tincture Calumba this morning; the mare was left quite dry. I am, yours truly, OCTAVIUS CORDER. 93 DEWSBURY ROAD, LEEDS, June 22nd, 1878. GENTLEMEN,In respect of the Press, I am very well satisfied with the working of it. I consider the application of the side lever to make it the most effective press in use for hand power.			
All year is a decher success. If new base to several times with equally satisfactory results; the saving effected will cover the cost in twelve months. Yours faithfully, THOS. J. W. TIPPING. HIGH STREET, COVENTRY, December 17th, 1872. GENTLEMEN,—In reference to yours of the 13th inst., I cousider that the "Tincture Press" I had from you is the best hand-press yet made, and capable of giving out quite as much power as you represent. It is as great an improvement with regard to the old-fashioned press as the locomotive of the present day is to that made by Stephenson. Yours truly, WILLIAM AVISS.	most effective press in use for hand power. Yours truly, ROBERT LESTER. 33 Low FRIAR ST., NEWCASTLE-UPON-TYNE, Dec. 12th, 1878 GENTLEMEN,—The Tincture Press I had from you in Octoher last is a very good one; it has power sufficient for any purpose, and is very suitable for extracting vegetable juices. Yours respectfully, PHILLIPS SPENCER.			
17 ST. GEOFGE'S CHOSS. GLASGOW. December 14th, 1872. CENTLEMEN.,—"Lynch's New Thicture Press" is certainly the best 1 have yet seen or made use of ; the pressure oue person: is enabled to put on seems sufficient for all practical purposes. I am, yours faithfully, J. M. FAIRLIE. The Glasgow Apothecarues' Co., 34 Virginia St., Glasgow.	OXFORD, GENTLEMEN,—I am very pleased with the working of the Tincture Press you forwarded me recently. Yours faithfully, HENRY GEO. VARNEY.			
Manufactured only by LYNCH & CO. 171a and 171b Alderscate Street LONDON, E.C.				

LYNCH & CO, 171a and 171b Aldersgate Street, LONDON, E.C.

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13

THE SCOT	TISH			
WIDOWS'	FUND			
MUTUAL LIFE ASSURANCE SOCIETY. ESTABLISHED 1815. President.—HIS GRACE THE DUKE OF RICHMOND AND GORDON, K.G., D.C.L. (Oxon.) Vice-Presidents. { THE HON. LORD DEAS; THE RIGHT HON. THE EARL OF HADDINGTON; THE RIGHT HON. THE EARL OF ROSEBERY; THE MOST HON. THE MARQUIS OF TWEEDDALE.				
Annual Revenue	£880,000			
Claims Paid	£11,000,000			
Profit Divided	£5,500,000			
1880 is the BONUS YEA Entrants before 31st December will participate in the				
SEVEN YEARS'	*			
HEAD OFFICE:9 ST. ANDREW SQUARE, EDINBURGH.LONDON OFFICE:28 CORNHILL, E.C.;West End Agency:49 PALL MALL.DUBLIN:41 Westmoreland Street.BIRMINGHAM:12 Bennett's Hill.NEWCASTLE:Grainger St. West.GLASGOW:114 West George Street.BIRMINGHAM:12 Bennett's Hill.NEWCASTLE:Grainger St. West.MANCHESTER:Albert Square.BRISTOL:22 College Green.NORWICH:48 St. Giles' Church				
LIVERPOOL: 48 Castle Street. Agencies in all the important towns of the EDINBURGH, December, 1879.	Plain. three Kingdoms. SAMUEL RALEIGH, Manayer. Aw. H. TURNBULL, Secretary.			
Copies of the last Annual Report, with Accounts, Prospectuses, an on application at any of the Society's Offic	nd Forms of Proposals, may be obtained			

THE CHEMIST AND DRUGGIST.

FEB. 14, 1880.



New Edition, iu 1 vol. square crown 8vo. pp. 500, with 100 Illustrations engraved on Wood, price 21s. cloth.

PIESSE'S ART of PERFUMERY, and Methods of Obtaining the Odours of Plants; the Growth and General Flower Farm System of Raising Fragrant Herbs; with Instructious for the Mann-facture of Perfumes for the Handkerchief, Scented Powders, Odorous Vinegars and Salts, Snuff, Dentifrices, Cosmetics, Perfumed Soap, &c. To which is added an APPENDIX on Preparing Artificial Fruit Essences, &e. The Fourth Edition, rewritten and enlarged.

London : LONGMANS & CO.

See page 17.

Now ready, Sixth Edition, in Two Vols., 8vo., £2 2s., COOLEY'S CYCLOPÆD PRACTICAL RECEIP

And Collateral Information in the Arts, Manufactures, Professions, and Trades, including Medicine, Pharmacy, Hygiene, and Domestic Economy; designed as a Comprehensive Supplement to the Pharmacopœia and General Book of Reference for the Manufacturer, Tradesman, Amateur, and Heads of Families.

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RICHARD V. TUSON, F.I.C., F.C.S., Professor of Chemistry in the Royal Veterinary College (*Eduar*).

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Feb. 14, 1880.



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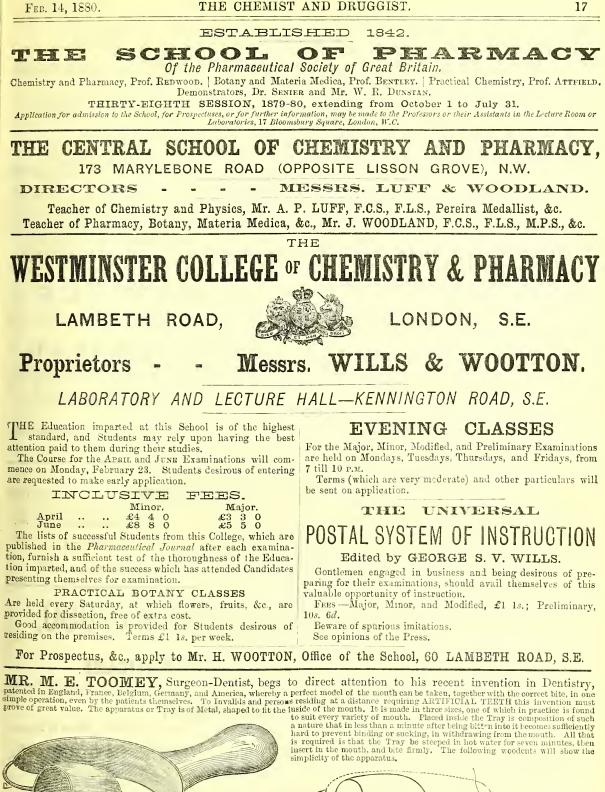


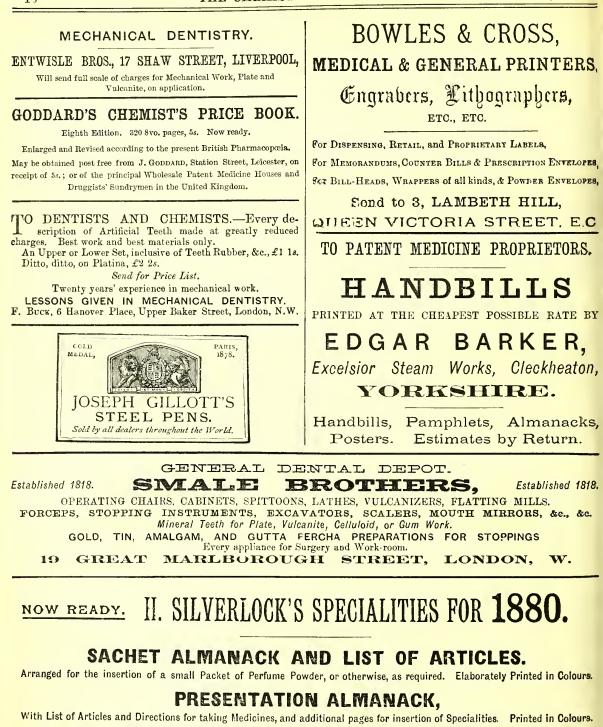
Fig. 2. The Tray in use.

Fig. 1. The Tray empty.

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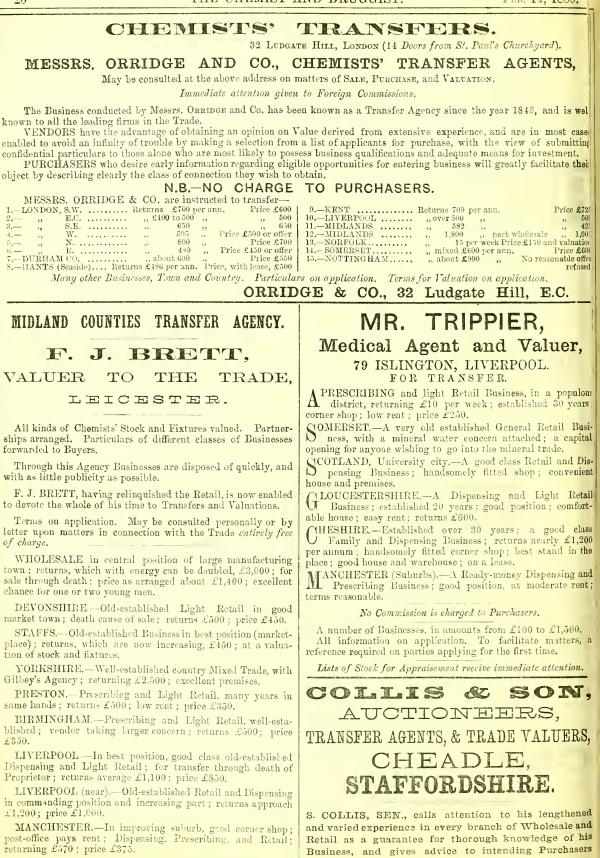
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Feb. 14, 1880.



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FOR DISPOSAL, one of the most profitable Businesses in Manchester; returns for 1879, £399; invoices, £170; rent, £80; let off, £40; net profit, including letting off, £389; was returning £714 before depression of trade, and will do so again when trade revives; excellent stock, sufficient for opening a couple of hrancles; every investigation courted; proprietor retiring. Address, in first instance, to Perey Franklin, Mrs. Briscoe's, Low Cross, Malpas, Chesbire.

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MPROVER, or Turnover.—To Parents and Guardians.—A vacancy is now open for a well-educated, gentlemanly Youth, who has had two or three years' experience; very unusual business advantages are offered to a youth seeking improvement; very comfortable home. Address, J. & W., 17. Mercurit Street Londow. 127 Aldersgate Street, London.

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 $\begin{array}{l} \textbf{STEADY, Trustworthy Assistant; aged 23; height 5 feet 7 inches; } \\ \textbf{M} & 4 years' experience in a mixed Wholesale and Family Retail Business in a large manufacturing town in Yorkshire; desires an engagement in an establishment in which dispensing is one of the principal features, and in which he would have facilities for acquiring a knowledge of a good class business; salary small; character bear strictest investigation. H. Robinson, Springfield, Guiseley, Leeds. \end{array}$

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TO INDIAN AND COLONIAL CHEMISTS.

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PRODUCERS OF ALUM CAKE are requested to furnish us with their Prices per Cwt. and per Ton. SUTTON & PHILLIPS, Works, Stowmarket, Suffolk.

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MESSRS. DILLEY & SON have received instructions to SELL BY AUCTION, at the George Hotel, Huntingdon, on Friday, February 20th, 1880, at seven for eight o'clock in the evening, the following valuable Property, subject to such conditions of sale as will be then pro-

valuable Property, subject to such conditions of sale as will be then pro-duced. All that valuable COMMODIOUS FREEHOLD BRICK AND TILED DWELLING-HOUSE, situate in the centre of the town, fronting the Market-place, with capi al CHEMIST'S SHOP in front. There are large and convenient outbuildings in the yard at back of residence, enclosed by folding gates, leading into Cook's Lane; also a capital large walled-in garden adjoining at the back, and private entrance from the High Street, as now in the occupation of Mr. William Ekins, Chemist, Druggist, and Soda Water Manufacturer. The Auctioneers heg to call special attention of Chemists and others in trade to this rare opportunity, as it is, through its commanding appearance

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Quantity of BEESWAX, very finest quality, of good colour, and guaranteed Pure, price 1/8 per lb, Good quality and colour, without guarantee, price 1/4 per lb. Good Wholesale Wax, fine colour, price 1/- per lb. Simples tree

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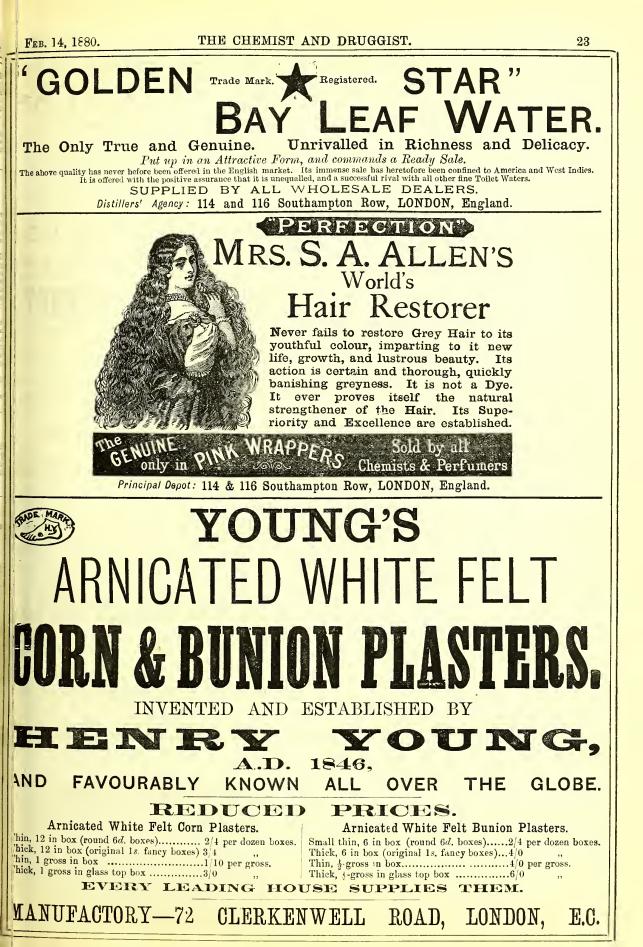
HIGGINSON'S ENEMAS.

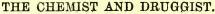
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103 Murray Street, New North Road, London, N., LATE OF 204 CITY ROAD, E.C.

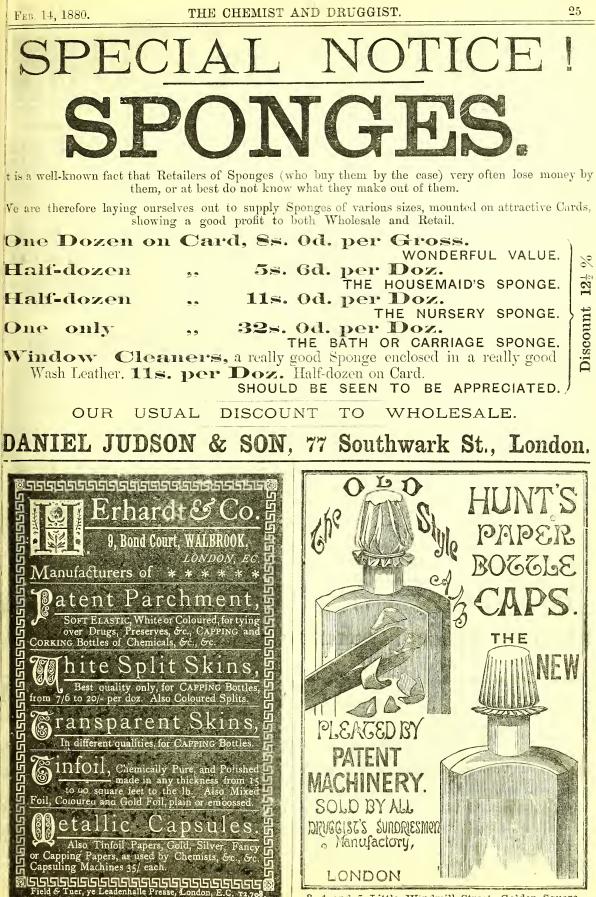




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3, 4 and 5 Little Windmill Street, Golden Square.



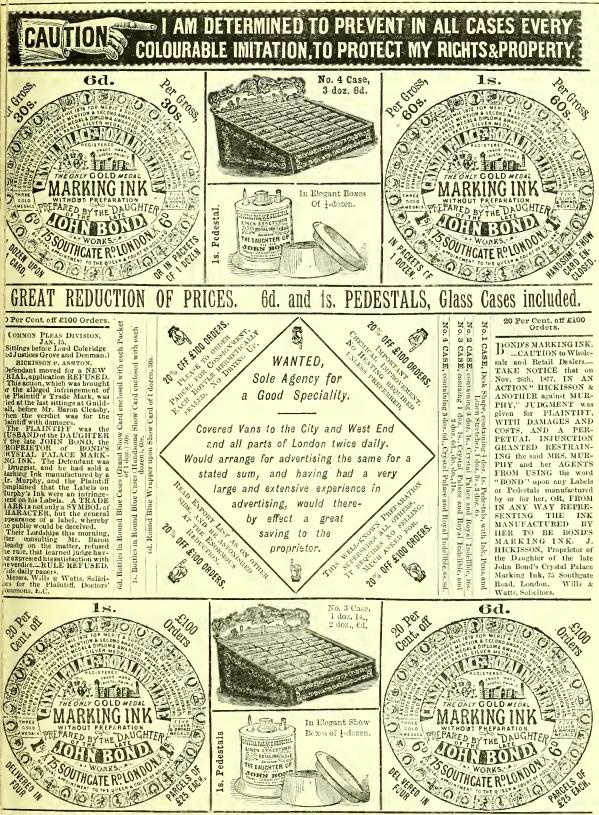




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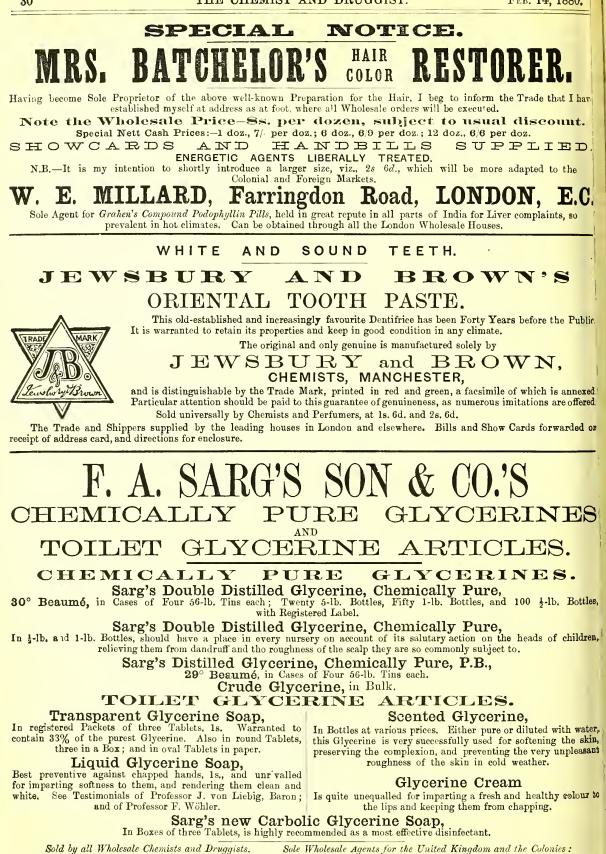
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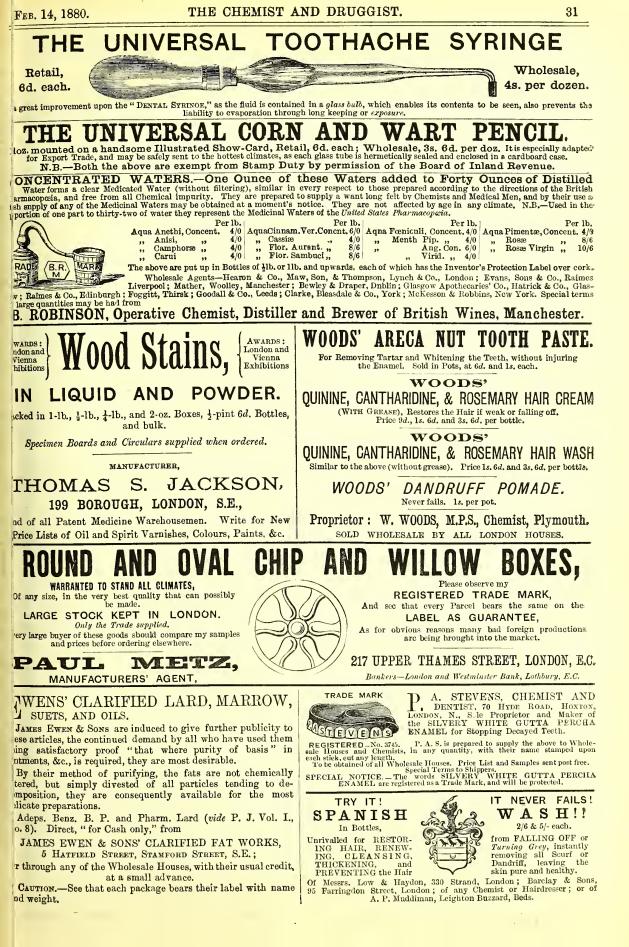
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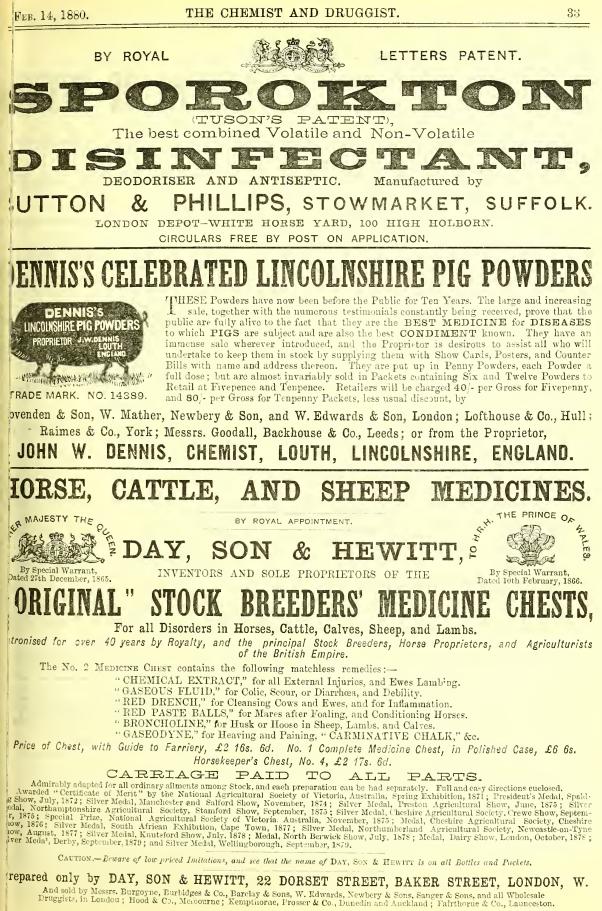
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14 MARKET BUILDINGS, FLINDERS LANE, MELBOURNE; 26 O'CONNELL STREET, SYDNEY.



Feb. 14, 1880







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INFALLIBLE "VERMIN DESTROYER.

ld., 2d., 3d., 6d., and 1s. OF ALL THE WHOLESALE HOUSES

HINTER

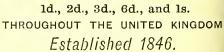
Depot :-- DEWSBURY.

TESTIMONIALS.

From Mr. Jas. Thompson, Low Hesket, near Carlisle, to Mr. R. T. Patcinson, Chemist, Carlisle:---"Sir,--Yon ean with confidence recommend 'Hunter's Vermin Destroyer.' It is the best thing I ever used, having often cleared stack-yards of both rats and mice in a day or two."

From Mr. Edward Thornton, Chemist, Lymc Regis:--^I can hear testimony to the efficacy of your 'Killer.' Parties who have purchased it of me say that it is the best they have tried. Mice are rapidly destroyed 'by it, and it quite answers the description you have given of it."

From Mr. Smith, Chemist, Glasgow:--"I have not kept any other 'Vermin Killer' than yours for the last four years. It is the best I ever sold."



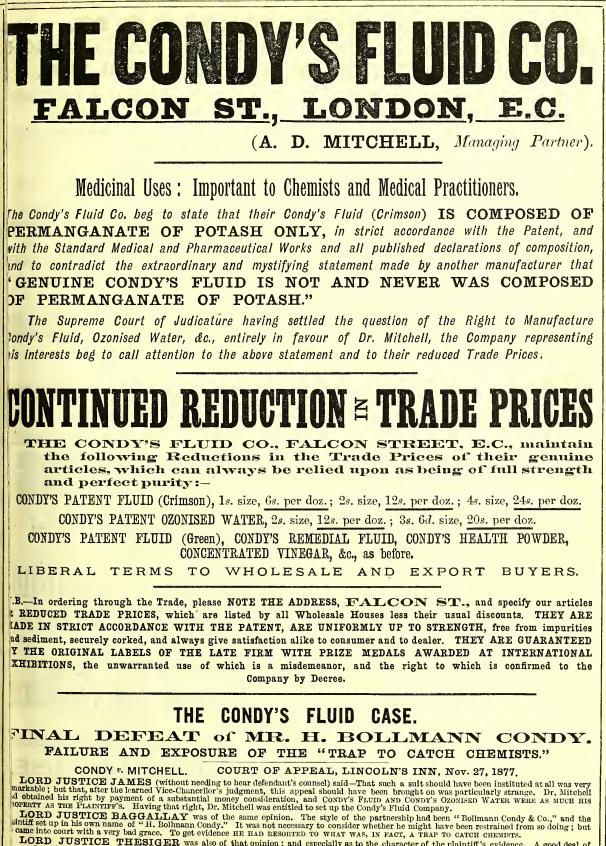
TESTIMONIALS.

From Mr. A. Billington, Chemist, Wakefield: Augnst 28,1878 :-- "Dea Sir,--Please send me a few of your Vermin Killer Registers. I can bea testimony to the deadly effect of your 'Killer,' having one night laid is my warehouse the contents of a 2*d*. packet, and found in the morning n⁶ fewer than forty dead mice."

From Mr. Geo, Eagle, Merrickville, Sydney, Australia, to Mr. Mitchell. Drnggist, Pitt Street, Sydney: -- "Sir, --I promised to let you know how. 'Hunter's Vermin Destroyer' acted. Its effect was wonderful; in on night if destroyed all the rats and micc about my house, which was swarmed with them."

From Mr. James Froud, Chemist, Dorchester :--- "Your poison suc ceeds to admiration. It is as effective as an 'informal machine."

FEB. 14, 1880.

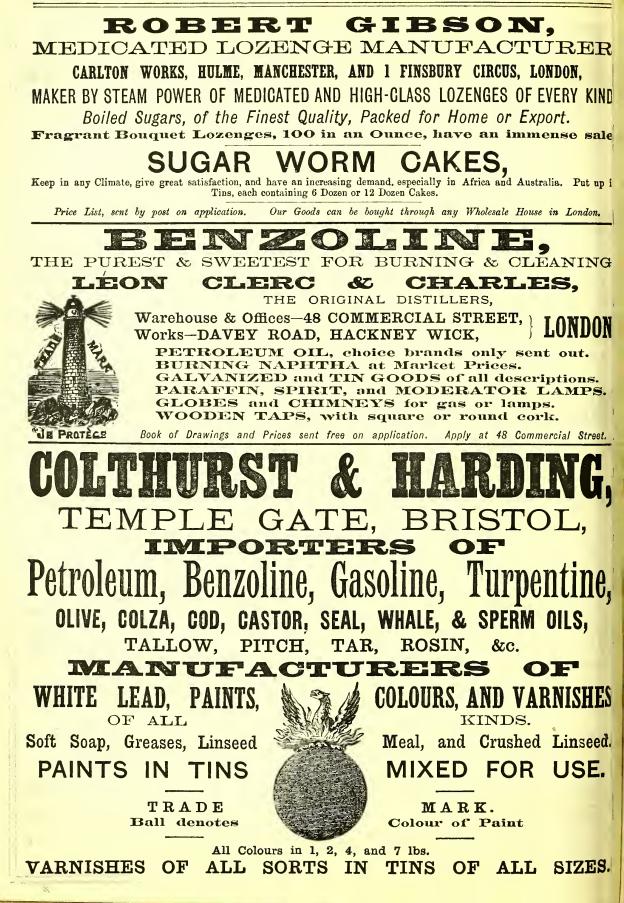


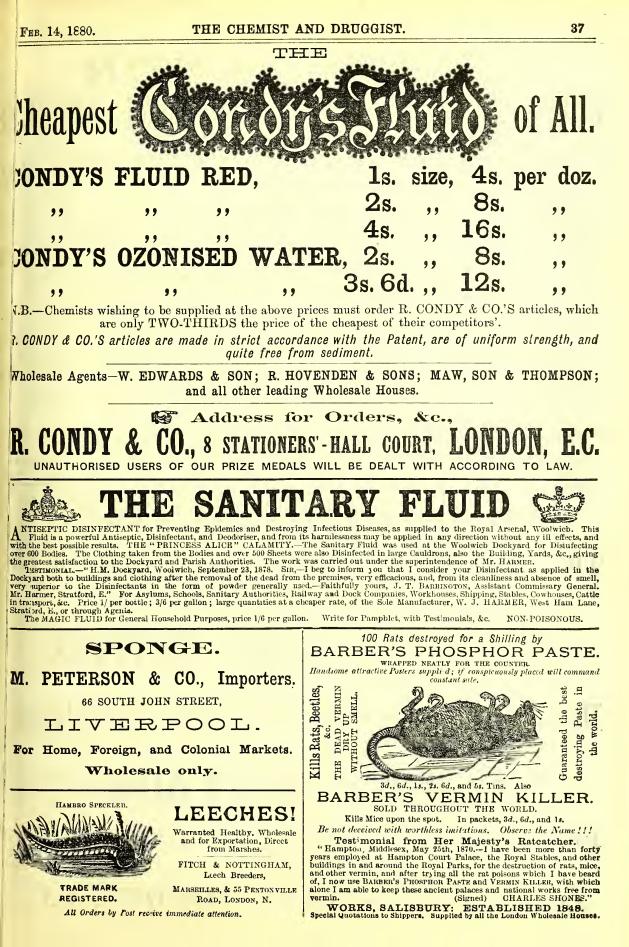
LORD JUSTICE THESIGER was also of that opinion; and especially as to the character of the plaintiff's evidence. A good deal of seemed to him not admissible at all.

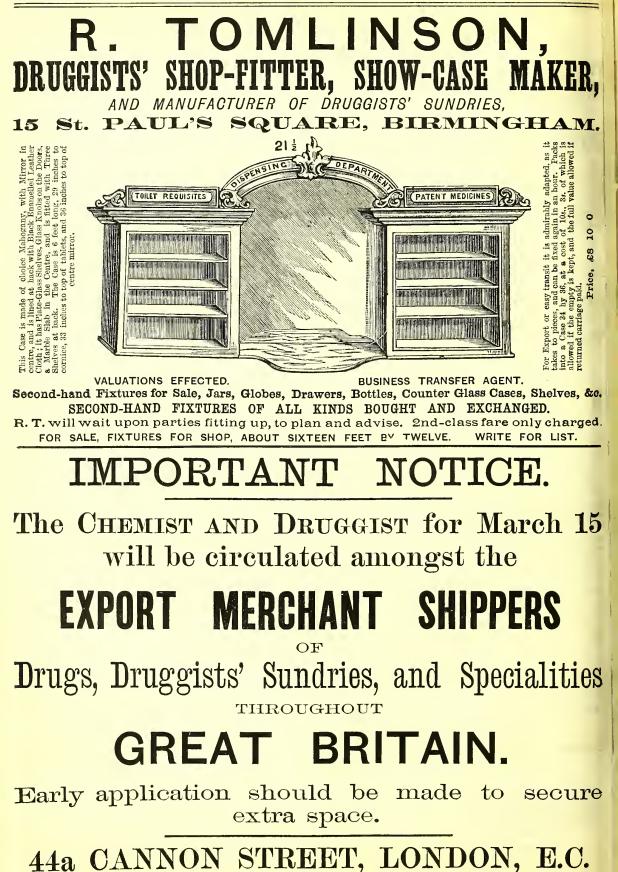
LORD JUSTICE JAMES; APPEAL DISMISSED WITH COSTS.

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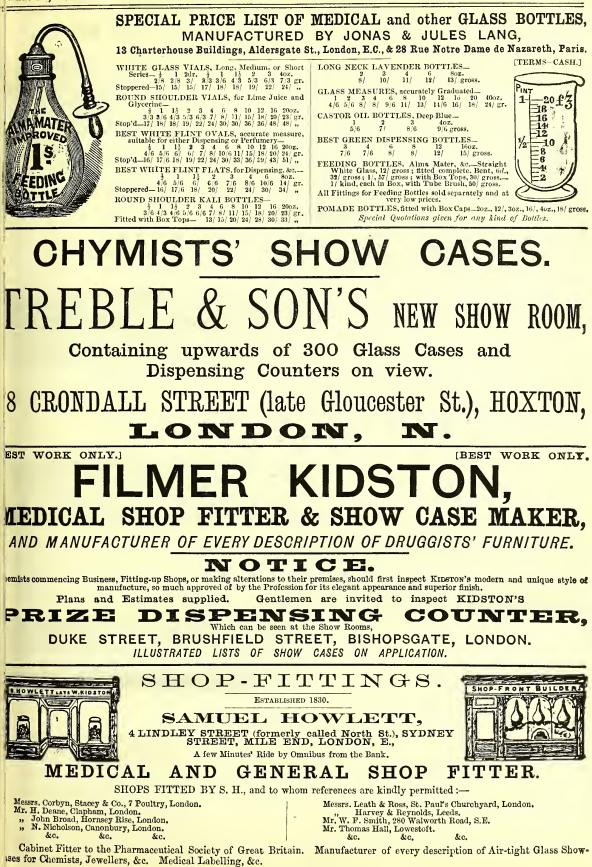






FEB. 14, 1880.

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THE CHEMIST AND DRUGGIST.

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February 14, 1880.

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(\mathbf{A})

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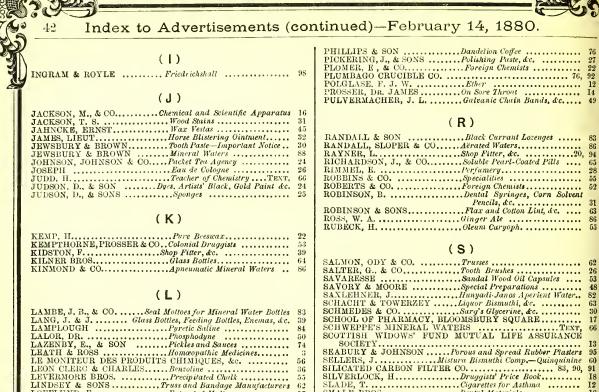
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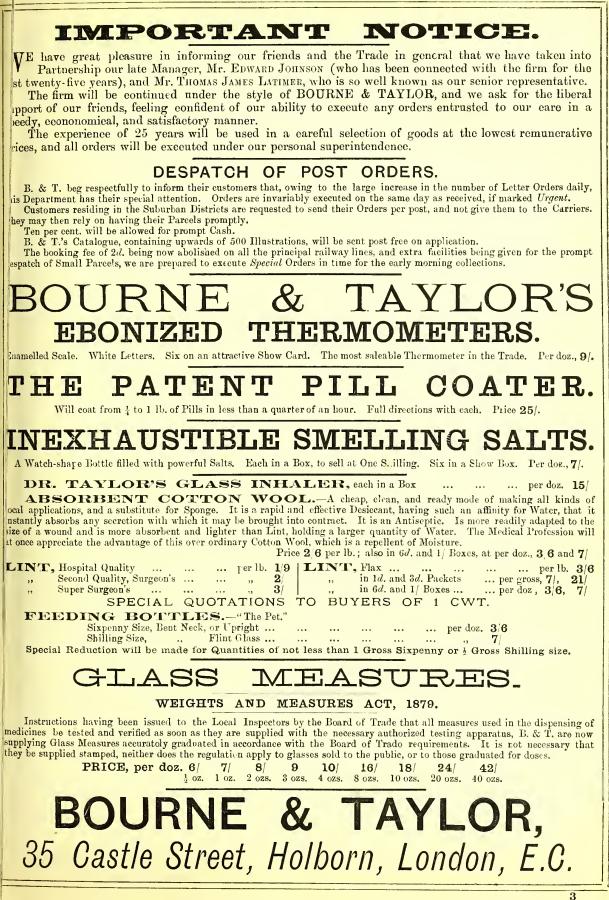
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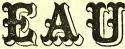
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ZIMMERMANN, A. & M... Agents for the Chemische Fabrik auf Actien, Berlin-Schering's Celloidine, &c.....











Feb. 14, 1880



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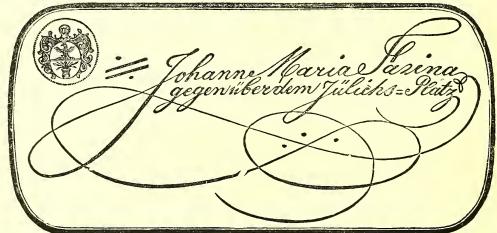
PRIZE MEDALS:-LONDON, 1851 AND 1862; OPORTO, 1865; PARIS, 1867.

By appointment, Sole Purveyor to Her Most Gracious Majesty Victoria, Queen of Great Britain & Ireland; Their Royal Highnesses the Prince and Princess of Wales; William, King of Prussia;

Albert II., King of Saxony; Alexander II., Emperor of Russia; Francis Joseph, Emperor of Austria; Lewis, King of Portugal; H.R.H. Frederick William, Crown Prince of Prussia.

In consequence of increasing inquiries from the Colonies for my Eau de Cologne, the only genuine, I beg to submit my Price Current.

At the same time I beg to call special attention to the following facsimile of my Trade Mark, for the protection of which I have instituted thirteen suits in the High Court of Chancery, all of which have been decided in my favour.



All similar Labels being more or less imitations of the same, I shall proceed as before against all persons selling or exposing for sale any such imitations.

I only prepare one quality of Eau de Cologne. This quality never varies in the slightest degree, and there has not been the smallest change in the manufacture since the year 1709, when it was invented by my ancestor. Orders equal to at least $1\overline{2}$ dozen short bottles will be promptly executed at 12s. 6d. per dozen, against my bill drawn at three months from the date of invoice, delivered free on board the export ship, at Rotterdam, Antwerp, Harburg, or Bremen, no charge being made for the case and packing, but insurance charged extra. $7\frac{1}{2}$ per cent. discount is allowed for orders equal to at least 100 dozen, but on no smaller quantities.

I may add that, as I do not draw on the Colonies, all Orders must be accompanied by a credit on some London House, or permission to draw on same at three months.

The Goods can also be shipped in transit through London at a very small additional expense, full particulars of which may be obtained of my Sole Agents for Great Britain and Ireland :---

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The following are the sizes of my bottles :---No. 1. Long Green Flasks , 2. Short White Bottles , 3. Double ditto 12 bottles 12 as per " 6 figure to one dozen. " 4. Wickered Bottles (small) 8 ... ••• ,, plate 5. ditto (medium) 42 " . . . " 6. ditto (large) ,, MARIA FARINA, JOHANN

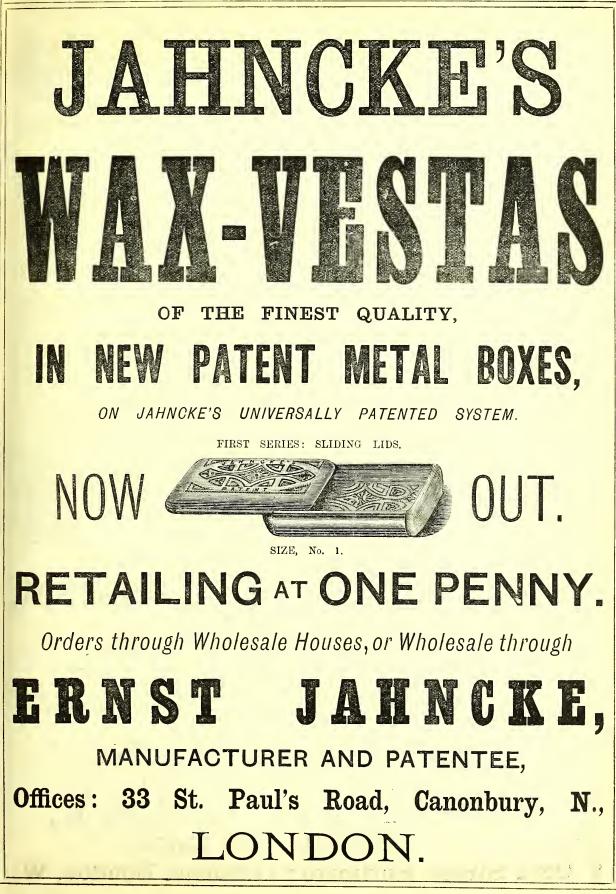
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FEB. 14, 1880

THE CHEMIST AND DRUGGIST.

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	EY & SON, REET, LONDON, CD A.D. 1833.
FIRST PRIZE (SILVER MEDAL) FO	OR TRUSSES AWARDED BY THE
WORSHIPFUL COMPANY OF CUTLERS	OF THE CITY OF LONDON MAY 1879
FIG. 1. FIG. 4.	
TRUSSES. Circular Trusses, single, as Fig. 1, basil and chamois or basil and mole-kin per doz. £1 1 0 Circular Trusses, double, basil and chamois or basil and moleskin per doz. £1 1 0 Salmon & Ody's Expired Patent, single, Fig. 4 , 114 0 Salmon & Ody's Expired Patent, single, Fig. 5 , 3 0 0	No. 6. Silk Oxonian, superior quality, bands of buff jean, with drawing-strings per doz, £1 4 0 7. Silk Bazs, to button on, with tape under-straps per doz, £1 4 0 8. , , , , uuder-straps to button , 1 4 0 ELASTIC STOCKINGS, KNEE-CAPS, ETC
Noc-Main Lever, single each 0 8 0	Manufactured expressly for Ex-
, donble, 0 13 6 Coles's Expired Patent, single, 0 5 6 , donble, 0 5 6 Scrotal Trusses, basil and chamois or moleskin, single, 0 4 0	port, and warranted to stand a hot climate better than any others Silk. Silk. Cotton. Cotton.
""",",", double, 0 7 0 SUSPENSORY BANDAGES.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
No. per doz. 0 8 0 1. Cotton Bags and tape under-straps per doz. 0 8 0 2. Cotton Oxonian, with drawing-strings , 0 10 0 3. Silk Bags and tape under-straps , 1 1 0 4. Silk Oxonian, with drawing-strings , 1 4 5. 1 4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

THE CHEMIST AND DRUGGIST.

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Feb. 14, 1880.

The above may be obtained direct from the Manufacturers, or from their Wholesale and Export Agents, Messrs. Barclay & Sons, 95 Farringdon Street.



A PROFITABLE ADDITION TO A DRUGGIST'S BUSINESS. THE NEW DISCOVERY.

TRADE

NUBIAN WATERPROOF BLACKING

Is an Oily Liquid Preparation, entirely free from Acid.

Vill NOT INJURE the Leather; gives a PERMANENT POLISH of great brilliancy without brushing), which does not rub off or soil the clothing; is Waterproof; and through RAIN, SNOW, and MUD will last a Week.

Ind when dry may be brushed off with a stiff brush, or may be washed off, and the polish will remain the same.

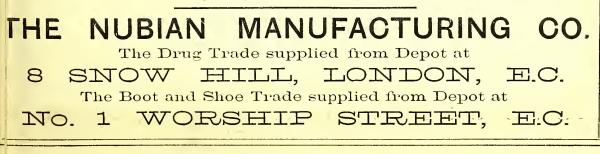
NUBIAN BLACKING

s suitable for Ladies' and Gentlemen's Boots and Shoes of every description; also Belts, Purses, and Travelling Bags, Harness, Military Accoutrements, &c.

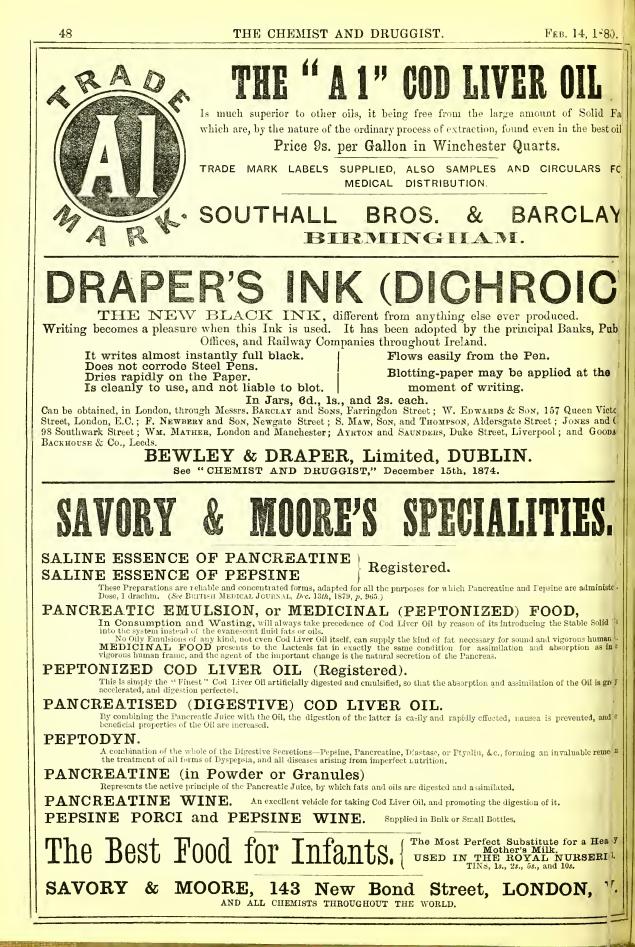
lasily applied with Sponge attached to the Cork, and should NOT be used more than once or twice a week.

N AGENT WANTED IN EACH TOWN throughout the World (where none has been established), to whom Counter Bills, with address on, also Show Cards, will be furnished free.

Can be Ordered through any Merchant, Shipper, or Wholesale House.



MARK.





February 14, 1880.]

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Post free to every country in the world. Single Copies, 1s. each. Post Office Orders to be made payable to EDWARD HALSE, at the eneral Post Office. An index to the advertisements, and the terms for insertion, will be found

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The Trade Association has prosecuted unqualified dealers n poisons at Newcastle, Leeds, and Birmingham during the past month, and has obtained convictions in each instance. n two Birmingham cases the defendants were using the ames of chemists living, one at Denbigh the other at Stratord-on-Avon, apparently with the consent of the latter, but hese attempts to evade the Pharmacy Act by the prétenom ystem, as is often done in France, did not succeed.

The Pharmaceutical Society has successfully prosecuted at Birmingham, under the 15th Section of the Pharmacy Act, ne of the persons who had previously been prosecuted by he Trade Association under the 17th Section. It ought to be learly understood that no one except the Pharmaccuical Council can prosecute under the 15th Section. In the pterests of the trade they ought to exert themselves in this irection to a far greater extent than has been the case itherto.

The subject of the abuse of narcotics has been brought rominently before the public during the past month. here exists, it appears, a widespread notion that while azors, rivers, and rope should be always accessible to ersons of suicidal or murderous tendencies, the sale of oisons should be guarded with ever-increasing strictness. he same journals, however, which worry themselves into a ever of indignation about the reckless sale of narcotic

medicines think it monstrous if we ask that the wholesale distribution of medicines by co-operative stores should be checked by law; and the sincerity of their talk about the value of human life may be estimated from their exultant leading articles over wars and rumours of wars. We are not, however, disposed to defend the rcckless sale of poisons, and we believe that the Pharmaceutical Society could and should do much more than it has yet done to carry out the provisions of the Pharmacy Act in this respect.

A Bill has been laid before the Jersey States for the registration of chemists and druggists duly qualified in accordance with the provisions of the English Pharmacy Act. Out of 16 persons practising as druggists on the island, only three are said to possess more than the simplest qualifications.

Our Correspondent travelling through India furnishes us, amidst other interesting matter relating to pharmacy in India, with particulars of a movement, originating at Agra, for obtaining a Pharmacy Act for India. He also sends us a drawing of a drug store at Benares, which, with its luxurious surroundings, seems well calculated to make home druggists envious of their Eastern brethren.

A deputation from the Pharmaceutical Council waited on Mr. Farrer at the Board of Trade, to explain to him the misunderstandings of the Weights and Measures Act, which seem to possess several inspectors. The Board of Trade, it appears, cannot instruct the inspectors direct, but Mr. Farrer suggests that the Pharmaceutical Council may draw up a statement of their complaints, to which the Board will reply officially, and he thinks that such a document would have weight with the erratic inspectors. Surely the official mind might have discovered a more roundabout method than this. Could not a new department have been established, with the express object of confusing inspectors, and another to correct them ?

There are 242 more names on the register of pharmaceutical chemists and chemists and druggists of this year than in that of last year. The total number is now 13,551, 2,299 being pharmaceutical chemists and 11,252 chemists and druggists. The "members" of the Pharmaceutical Society are 30 fewer than last year, though the associates and apprentices have increased by much more than that number.

A question arose, at the last meeting of the Pharmaceutical Council, whether chemists and druggists who are not mem. bers of the Pharmaceutical Society have a right to describe their establishments as "pharmacies." The Secretary and several members of the Council seemed disposed to give the Society the benefit of the doubt, but they ultimately agreed to submit the inquiry to the Solicitor. If his reply should be unfavourable to the claim it will probably be disclosed in committee. We believe the term "pharmacy," as applied to a chemist's shop, was first an adaptation from the French, by whom it has been so used for centuries; and that, except in very rare instances, there has been no deliberate intention to pretend to a qualification not possessed.

In our report of the Chemical Society's meetings some interesting facts will be found. Dr. Prevost has found by experiment that rain dissolves very much more solid matter from soil in which no seeds have been sown than in cropped earth. Mr. Warington suggests a useful hint in recommending chemists to make their benches and other woodwork impervious to acids by heating them and then rubbing in paraffin.

Dr. Whitla, of Monaghan, has been elected on the Irish Pharmaceutical Council in place of Mr. William Allen, deceased. Sir Dominic Corrigan, the first President of the Irish Pharmaceutical Society, died on the 1st inst.

According to Mr. A. H. Allen, Sheffield can probably manufacture diamonds if Glasgow has failed. Life will lose its charms for the belles and beaux of society if they are to suffer a monthly scare in this style about their precious stones.

Edison's new electric lamps are still one stage short of perfection. There appears to be a difficulty in maintaining the vacuum. The inventor is at work on the leak, and hopes soon to be finally successful. Meanwhile the shares in his company, which have been up to g3,500, are now quoted at not much over g1,000 for g100 originals.

The sale of arsenical paper-hangings was last month brought under the notice of the Society of Arts by Mr. Henry Carr, and a general wish was expressed for an Act of Parliament to check such sales. We have suggested elsewhere that these might be prevented by the application of the sale of poisons clauses of the Pharmaey Act without any additional legislation.

According to the statistics published by Mr. Richard Seyd, F.S.S., it appears that 96 chemists and druggists failed in 1879, which was exactly the same number as failed in 1878. The total number of failures in the year was rather greater than in 1878, but a considerable improvement was manifest in the latter months of the year.

Messrs. Ferris & Co., the old-established chemists of Bristol, have startled their *confrères* in that city by suddenly reducing their retail prices to co-operative store levels, and even below. They are advertising in the local journals, and have circulated 24,000 price-lists to the families of the district.

The Chesterfield chemists have considered the desirability of reducing prices for patent medicines, but have preferred not to do so. A well-drawn-up statement of their reasons appears among our provincial reports.

Certain Sheffield chemists have been attacked, as we meutioned last month, on a rather large scale by the Inland Revenue authorities. Some of them seem to think it especially hard that they should be fined for sales of one or two pennyworths of medicinc. We have not a full acquaintance with the facts, but we do not think there is any reasou to suppose that the Board of Inland Revenue have taken a new departure in any seuse. They have always allowed the sale of any medicines unstamped in which the disease to be cured is only intimated as an adjectival part of the title. But if property is claimed in such title, or if these medicines are recommended by handbill or advertisement, the indulgence referred to is thereby sacrificed, and the medicine, whether it be a penuyworth or ten shillings' worth, requires a medicine stamp of the due amount. A Sheffield firm ask in our correspondence columns for cooperation in an attempt to abolish the mediciue duty altogether on quantities-say not exceeding 4d. It seems to us that such a demand would be useless, and would almost be equivalent to abolishing the medicine stamp altogether, as it would afford too great facilities for evasion. A more reasonable request would be for two new stamps—say \$d. for three pennyworth or under, 1d. for six pennyworth or under, and the rest as now existing.

The case of Von Heyden v. Neustadt (the manufacturers of salicylic acid) came on in the Court of Appeal on Monday list, but was postponed in consequence of the other engagements of the Attorney-General. It is very probable that the appeal of the defendants in the case of the Pharmaceutical Society v. The London and Provincial Supply Association will be heard towards the end of this month.

ADOLPHUS FREDERICK HASELDEN.

O^N Saturday, February 7, Mr. Adolphus Frederick Haselden was buried at Highgate Cemetery. The weather was not propitious—indeed the sky was as gloomy as the occasion.

Mr. Haselden was a good and honest man, one who, while never attempting impossibilities, did the work which lay before him iu a sensible, careful, and generally successful manner.

He was an illustration of how an individual, apart from conspicuous ability, may obtain an honourable position, and reap the reward of a consistent life.

The name of Mr. Haselden appears on the original list of associates in 1842, and he became a member of the Pharma ceutical Society in 1855.

The death of Mr. Jacob Bell left a vacancy in the office of President and one member of Council. On July 6, 1859 Mr. T. N. R. Morson was called to the Presidential chair and Mr. Haselden was cleeted on the Council. From that date for many years consecutively he served upon that Board.

In 1869 he was chosen Vice-President, and upon the resignation of Mr. Sandford, in 1871, he became President which office he held until his retirement from the Counci iu 1873. It thus happened that on two occasions he received official distinction in a somewhat unexpected manner.

On presiding for the first time at an annual general meeting (May 17, 1871) he observed : "Gentlemen,-Two months ago I little expected that I should on this day have the honour and pleasure of addressing you from this chair.' Sudden, however, as had been his clection, he made not only an appropriate address, but a very good president into the bargain. It was a stormy and uneomfortable period, when the proposed poison regulations were eagerly discussed, and opinion on both sides ran high. Mr. Haselden took a active share in the work and arrangement of the examina tion system. He was examiner, with slight intermission from 1864 to 1877, during which period, though he preferred botany and materia medica, he did not confine himself to any particular department; and he rendered acceptable aid in determining the number of marks allotted to each candidate. He paid special attention to the framing and definite construction of the preliminary examination when it ceased to be rirâ roce and assumed a more officia character.

Mr. Haselden was at one time a very frequent contribute to the pages of the *Pharmaceutical Journal*, and discourse ou things pharmaceutical in an agreeable and instructiv manner. Being himself a Latin scholar, he was fond o insisting upon the value of a classical clucation to the phar macist; and being also familiar with the French language he turned this acquirement to account in many of his com munications. These literary cfforts appeared in rapic succession, and will still be recollected with pleasure Amongst his longer papers may be mentioned the series of the "Codex and the British Pharmacopæia Compared" (1864) The introduction was read at an evening meeting, the re mainder appearing in journal form as original articles.

His "Notes on the British Pharmacopœia of 1864" wer issued in a small volume, and were meant rather as explana tory remarks than as a criticism on the newly-publishe work. Of his general contributions the one on "Names i General, Pharmacopœial and Pharmaceutical in Particular (July 13, 1859), may be quoted as a fair specimen of th writer's style and composition.

Following the example of many of his brethren in phar macy, Mr. Haselden sought and obtained admission as Fellow of the Linnean Society, and he was a diligen attendant at the Thursday evening meetings at Burlingto House.

While the Council were assembed ou Wednesday, Feb ruary 4, a message was received that Mr. Haselden, thei former president, had died that morning. A resolution wa immediately proposed by Mr. Atkins, seconded by M. Savage, and unanimously supported, in which the sincer sympathy of the Board was couveyed to Mrs. Sharp, th sister of the deceased gentleman, at the loss she had su thed. At the same time, the resolution conveyed the curance of the high esteem in which the late Mr. Haselden is held by the Council for the valuable services which he had indered to pharmaey, and especially for the efficient manner which he had performed his various official duties.

At the funeral, besides some members of the family of the ceased, Professor Redwood, Messrs. T. H. Hills, T. Greenish, ias Bremridge, J. B. Barnes, R. Hampson, J. Robbins, and seph Ince followed him to the grave.

We can searcely do better in estimating the career Mr. Haselden than quote a passage from his own itings, the spirit of which he conscientiously followed t to the letter. (December 8, 1856.) "A liberal education, fair share of natural abilities, a good stock of perserance, a no mean quantity of patience, and a reasonle amount of capital, are indispensable to a profitle and prosperous career: without these, few attain even ediocrity, and with them, little more than moderate comnation, for outlay; but one word more: having chosen your cation, strive to make the best of it; if it be not so profitle or so brilliant as your fancy pictured it; if the sunny le be the exception and not the rule, endeavour, at least, erewith to be content."

J. I.

Pharmacalia.

THE GRAPHS.

HOSE who of late have been practically engaged in written xaminations must have gained some experience in the orking of the various "Graphs" which are just now in shion. There is the Chromograph, the Papyrograph, the opygraph, and sundry other combinations all meaning the ame thing--namely, a method of using a coloured ink which when dry ean be readily transferred to a paste of uitable consistency, from which 20 or 30 fair transcripts an be obtained. Considerable care is requisite in order to ret an unsmcared result; but, however unfortunate may be he appearance of much domestie manipulation, every pharnacist should be able to be quite successful in the process. The details are as follows:-Take 1,200 grains of pure dycerine and 500 grains of gelatin, to which add subsequently a little barium sulphate, enough to colour it white. Pour a little boiling water on the gelatin in a beaker. Put he beaker in boiling water and heat until the gelatin is entirely dissolved, and, consequently, of a uniform thickness. Take this gelatin solution, carefully noting that it is quite smooth, and pour it into a large evaporating basin. Add the glycerine by degrees in proportion of about three-fourths at a time; boil the composition well, with constant stirring, until mixed. To this mixture add a weak solution of barium sulphate of the consistency of milk, and the requisite whiteness having been obtained, pour the whole into a flat tin placed on a level surface. Nothing answers better than the eover of a tin jujube-box, the size of a large sheet of note-paper. All air-bubbles should be removed with a glass rod; a little practice will almost prevent their formation, which is due to hasty pouring. Leave the tin till the composition becomes quite set, and when used wash the surface evenly with hot water, and "sluice" afterwards with cold water.

Different proportions of gelatin and glycerine have been suggested, and probably answer well—the above quantities have often been used with suecess. The mass so made resembles the jujube paste as sold in sheets, whitened by the barium salt. It absorbs aniline inks; the best for the purpose being violet. Place the sheet of paper, writing downwards, on the composition; gently but firmly smooth it over the moist gelatinised surface by hand-pressure, and rub so as to bring it well into contact. Remove the paper slowly from the top, downwards, observing whether any portion may have missed the action of the ink, in which case gently rub for a second the faulty space upon the composition, and thus remove the whole. The printing-press is now ready. Fresh paper is laid, sheet by sheet, upon the writing, the hand gently rubbed in a circular manner over the back, and a clear copy is thus produced. Repeat as long as the original will give complete copies, or as copies may be required. Finally, when done, wash the composition with cold water and a sponge, and reserve for future use. Copying-ink may be bought at any good stationer's at a cheap rate; but the press itself is sold at a fancy price.

A MODEL LABORATORY.

Late in the autumn of 1879 there was a solemn inauguration of the Chemical Laboratory at Geneva. The local authorities, professors of the university, many distinguished men of science, and students assembled at the installation of the magnificent structure destined for chemical instruction, under the presidency of M. Cartcret.

M. Raoul Pictet, well known for his experiments on the liquefaction of gases, has recorded his impressions on the subject. Describing a visit to the new school, he says that on entering by the grand staircase which leads to the vestibule, one is reminded of a palaee; but should we wish to gain a just idea of the place we must begin underground and finish by the attics.

First, there is an immense boiler, made at Wintertha by the Brothers Sulzer, which distributes steam and hot water throughout the establishment. This feeds all the warming apparatus, and sets in motion the big ventilator placed at the base of the main chimney. A smaller boiler does duty in the summer. A second specialty consists in an electro-magnetic machine, Gramme's system, with hydraulic motor of four-horse power. This instrument communicates the electric current to the laboratories, and in any direction where its action may be utilised. Just above this machine department, which may be described as cellarage, the true basement premises extend over the whole area, and are partitioned off into different lecture-rooms. Some arc assigned to Professor Graebe for his courses on technical chemistry and industrial research, with special laboratory; others are assigned to Professor D. Monnier, who presides over biological ehemistry; and here is a room devoted to vivisections and practical experiments in toxicology. In furtherance of this object there are wired eages in which some hundreds of frogs are kept, martyrs in the eause of seience. Mounting from the basement to the ground-floor, the whole of the left wing is devoted to general chemistry, under the superintendence of M. Graebe; accommodation is specially provided for 16 students to work out researches in organic ehemistry. It is elaimed as an advance upon ordinary arrangements, that a perfect and continuous system of fume ehambers are in immediate connection with the main central elimney; and that a room eonveniently opening into the chief vestibule is adapted to operations which involve the employment of hydrogen sulphide.

Each student has hot water, stean and gas at his command; an ingenious contrivance allows him to distil in vaeuo; and preeautions have been adopted to prevent aceidents arising from explosive gases—this elass of dangerous experiments being conducted in special chambers, and with protected apparatus.

An automatic regulator limits the consumption of gas to the quantity required for obtaining any definite degree of heat. The drying-room, contiguous to the laboratories, is lined by rows of rectangular compartments of various sizes, n which chemical products may be placed and subjected to a temperature bordering on 100° C. Between the metallic sides of these compartments steam may be passed so as to raise the temperature to nearly that of boiling water. They are provided each with doors which may be hermetically closed or left open as desired.

In short the question of improved mechanical appointments has been carefully studied throughout the arrangements. The largest of the numerous laboratories upon the building (for there are several) is that devoted to analytical chemistry, under Professor D. Monnier. Accommodation is provided for 48 students. Its appearance is described as striking, and it can be lighted up at night, being intended for evening as well as for morning study. Adjoining this laboratory are rooms entirely fitted for spectroscopic analysis and the art of photography.

Experiments involving the escape of noxious gases may be made at will in a gallery protected from the rain, but still in the open air.

Two rooms are devoted to microscopic observations, micro-chemistry having become almost a distinct branch of science. Two lecture amphitheatres are placed at the disposition of the professors—that on the left is reserved for M. Graebe, for general chemistry; that on the right for M. D. Monnier, for special chemistry. The first is the larger, and can seat 150 students, the benches rising in tiers one above the other, as at Paris. This lecture amphitheatre is in direct communication with the laboratory of M. Michaud, who is the head demonstrator, or to give him his official title, *préparateur du cours*.

An extreme advantage is thus gained in the facility with which needful experiments may be in readiness.

The smaller amphitheatre, assigned to M. D. Monnier, will seat 60 students. The architects of this fine establishment are Messrs. Bourrit & Simler; and this rapid sketch will certainly convince the English reader that Geneva has made an energetic movement in the direction of chemical teaching. The ancient city may be congratulated on having eugrafted on the traditions of the past the fresh impulses of modern enterprise.

MICROSCOPY.

A liberal amount of commendation may be extended to the Publication Committee of the Royal Microscopical Society for the manifest improvement in the character and appearance of their Journal and Transactions. This bimonthly publication has almost reached the size and dignity of a review, and there are two noticeable departments to which attention may be directed. In addition to the report of the meetings of the Society, each number contains a classified index in English to the contents of upwards of 300 British and foreign scientific Journals and Transactions. This index, under the heading "Bibliography," forms a reference to current researches relating to invertebrata, cryptogamia, and microscopy in general.

"The Record," which precedes the index, and which in the December issue extends to 114 pages, consists of abstracts of, or extracts from, the more important of the articles noted in the bibliography. An attempt has thus seriously been undertaken to ascertain what is being done by biologists of this and other countries. The feeling has been (to quote a remark of the editor, Dr. Crisp) that whilst the annual records published at home and abroad are invaluable as books of reference beyond anything to which a bi-monthly journal could attain, a more readable account of the results of research would be useful, and, if possible, one not so much out of date. The enormous labour of compilation has hitherto deterred many from this task, and consequently three responsible assistants in editorial work have volunteered that aid which was indeed indispensable. In acknow-

ledgment of the excellence of the work done we may subjoir the names :--Messrs. T. J. Parker, lecturer on biology at Bedford College, London; A. W. Bennett, M.A., lecturer or Botany at St. Thomas's Hospital; and F. J. Bell, professon of Comparative Anatomy at King's College. Recollecting as we do, the unsatisfactory character of the original journal of the Microscopical Society, and the personalities with which its pages were disfigured, it is with sincere pleasure that we contemplate the transformation which it has recently undergone.

MEDICAL STUDENT PLUS HERO.

The medical student is popularly supposed to be an individual who seeks a refuge from sorrowful actualities in excitement and dissipation. The charge is to a great extent untrue, and it will be allowed that there are splendid exceptions.

Georges Herbelin, of the Hôpital St. Eugénie, who a few weeks ago was carried to his grave with well-deserved marks of respect, has by his personal conduct exalted the character of his race.

This young man, whose courageous devotion to the sick had won the admiration of the hospital authorities, caught diphtheria while attending a little girl suffering from that malady.

All the skill of the doctors failed to save him. Before dying, however, the brave young student had the satisfaction of receiving the Cross of the Legion of Honour, a distinction which he had richly merited.

The funeral was attended by M. Lepère, Minister of the Interior; M. Hérold, Prefect of the Seine; several municipal councillors and leading physicians. A detachment of infantry rendered him military honours. Additional interest surrounded the event from the fact of the deceased's father having died in precisely the same way. Life is not to be measured by the size but by the perfection of its circle.

The Pharmaceutical Council.

WEDNESDAY, FEBRUARY 4, 1880.

PRESENT.—Mr. Schacht, Vice-president, who, in the absence of the President, occupied the chair; Messrs. Atkins, Bottle, Churchill, Fraser, Greenish, Gostling, Hampson, Hills, Mackay, Richardson, Rimmington, Robbins, Shaw, Squire, Symes, Savage (in the vice-chair).

MINUTES.

THE Minutes of the last meeting were read, and the Council went into Committee to consider a private question therein referred to. On resuming the minutes were confirmed.

LOT FOR NEXT COUNCIL.

RETIRING MEMBERS.—The following members of the Council retired by rotation :—viz., Messrs. Gostling, Greenish, Hills, Mackay, Sandford, Schacht, and Slipper.

The following retired by ballot:--viz, Messrs. Atkins, Frazer, Hampson, Rimmington, Savage, Squire, and Symes.

The members remaining in the Council by ballot were Messrs. Bottle, Churchill, Richardson, Robbins, Shaw, Williams, and Woolley.

ELECTIONS.

The election of members, associates, and apprentices then took place.

RESTORATIONS TO THE REGISTER.

The Council considered individually a number of cases for restoration to the register, and after discussion on each person's application it was determined, that Messrs. W. H. Evans, of Battersea, and A. T. Roberts, of Brighton, should be restored to their former status in the Society, on payment of their subscriptions and the fines imposed in each case." The persons spirestored were eight in number, and paid fines varying from 5s. 3d, to 21s.

[February 14, 1880.

REGISTRATION.

The Secretary reported four applications to be placed on be register, and was about to read the terms of the appliations with a view to their discussion, when

A member proposed that the Council should go into comlittee to consider the cases.

Mr. Symes thought this course was wholly unnecessary. all probability nothing would arise beyond routine busiess, and he considered that until something of a more imortant character cropped up the matter might be dealt with a open council.

Mr. Mackay eoineided with Mr. Symes' view, and ultinately the proposition for going into committee was withrawn.

Mr. Rimmington inquired if it was an undoubted fact hat all the names placed on the register were perfectly satisactory and *bonâ-fide* cases.

The Secretary said he should not think of placing names on he register unless they were such as Mr. Rimmington indi-ated; he had ever used the utmost eare in such cases, and as matter of fact in one particular case the Council itself had letermined to admit a man's name to the register quite ontrary to his wish (laughter); he had long rejected that nan's application, and would even now like to see the name xpunged. The Secretary then proceeded to read some eorespondence he had had relative to a magistrate having igned a chemist's certificate on insufficient knowledge of he ease. A considerable amount of conversation was held n the subject, Mr. Rimmington stating that he knew of the ase himself where a magistrate confessed to signing the paper pro formâ, without any direct evidence that the person vas actually in business. Mr. Bottle mentioned another ase. Mr. Robbins considered the better plan would be that n all such cases the Secretary should write to some authority in the locality, and so satisfy him self that the person applying was really in business. This suggestion was endorsed by some other members.

REGISTRAR'S REPORT.

The Secretary then proceeded with a statement of the comparative numerical strength of the Society for the five years 1875 to 1879, an analysis of examinations, &e. The number of candidates for the preliminary examination during the past year was 1,174, against 1,130 in 1878, and the number of successful eandidates was 783 ast year, against 538 in the year previous. The per-The percentage of failures was represented by 46.88 last year, while in 1878 the figures were 54.27. Last year was the first occasion on which candidates were tested in translating English into Latin, and it was thought that many failures would result. It was an extraordinary and gratifying fact, however, that out of 176 candidates only 17 failed in Latin. There had been an increase of numbers of pharmaceutical chemists and ehemists and druggists on the register during the year of 242, and the totals on December 31 were : — Pharmaceutical chemists, 2,999; chemists and druggists, 11,252; total, 13,551. There was in 1875 a total of 1,823 pharmaceutical chemists subscribing members; but in 1879 the numbers had fallen to 1,742. Of ehemists and druggists who were subscribing members there were 835 in 1875, and 812 last year. The number of were 835 in 1875, and 812 last year. associates in business had increased in the period under review, being 576 in 1875 and 965 in 1879. Apprentiees and students had also multiplied during the same period, and were represented by the numbers 852 in 1875 and 1,071 last year.

Mr. Bottle eonsidered that the Secretary had laid a very succinet and clear illustration of the present position of the Society before the Council, and he thought that the position was a very satisfactory one. The number of pharmaceutical ehemists in the Society was decreasing, but it was decreasing at a much less rate than had been the case some years previously. As a set-off to this he was pleased to observe that the number of apprentices had considerably increased. This fact was, to him, eminently satisfactory, as showing that young men were freely coming forward and identifying themselves with the Society. It was undoubtedly to such persons an interest to join the Society; they would do good and get good by so doing. He (the speaker) had for many years taken a deep interest in the welfare and

progress of the Society, and some long time ago—as many of the Council would probably remember—he made an elaborate calculation as to how long it would take the Society, at the rate of decline then existing, to die out altogether. The figures which had just been laid before them, and the prosperity which they indicated, had, however, completely set his calculation aside, and it now appeared as if he would himself die out much sooner than the Society a sequence which he was glad to see accrue.

After further conversation it was agreed—"That the Registrar's report be entered on the minutes, and published in the Journal."

REPORTS OF COMMITTEES.

Finance.

The Chairman believed it was consistent with recent alterations for the Council to go into committee to receive the reports of committees. Some dissent having been expressed, the resolution of the former meeting was referred to, and the Chairman said he was glad to find that it was only necessary to resolve into committee in the event of private or personal matters coming forward.

A recommendation from the Finance Committee, re renting a particular house at 45% per annum, led to some discussion, and it was ultimately agreed to leave the matter to the judgment of the Finance Committee, a motion that the report and recommendations of the bedy be received and adopted being carried.

House.

The Secretary explained that the house porter having been absent for some time through illness, and on his convalescence being compelled to sleep out of the house by lack of accommodation, the Committee recommended that various alterations (as specified) be made in the laboratory, so that a suitable sleeping quarter might be provided for the porter's use. Many members of the Council agreed that it was desirable the porter should sleep in the house, and it having been shown that the proposed alterations would necessitate an outlay of 10*l*. only, the Council determined to leave the matter to the discretion of the Committee. The report and recommendations of the House Committee were then formally agreed to.

Bencrolent Fund.

The Council next considered various applications for annuities, and a considerable amount of discussion occurred as to the *bona fidrs* of one of the annuitants. The members of the Council made sundry suggestions for ensuring against a misappropriation of its funds. The matter was ultimately confided to the judgment of the Secretary, and the sum of 55*l*, was voted amongst the annuitants.

Library, Museum, and Laboratory.

The Secretary read a statement of the number of visitors to the museum and laboratory during the month.

The question of admitting medical students to the museum was mooted, but quickly adjourned. The circulation of books during December was—Town,

The circulation of books during December was—Town, 148; country, 58; total, 206. The eirculation during the year was—Town, 723; country, 755; total, 1,478.

The Chairman was pleased to know that the museum was widely appreciated, and in important quarters.

The reports and recommendations of the various committees were then agreed to.

General Purposes.

The Council resolved itself into ecommittee to consider the report of the General Purposes Committee.

DEATH OF MR. A. F. HASELDEN.

- The Secretary reported that he had received a communication from Mrs. Sharp, of Croydon, stating that Mr. Haselden, a former president of the Society, had died that morning. Thereupon a general conversation ensued upon the late president's services to the Society, and it was decided that the matter should drop for the moment. Later on the subject was resumed. Mr. Atkins, after speaking in terms of the greatest admiration of the deceased gentleman as a man, a pharmaeist, and as president of that Society, moved :--

That this Council, having heard of the death of Mr. Has elden, desires to express to Mrs. Sharp, the sister of the deceased gentleman, the most sincere sympathy for the loss which she has sustained, and at the same time to convey to her the high esteem in which the late Mr. Haselden was held by the Council for the valuable services which he rendered to pharmacy, and especially for the efficient manner in which he performed the duties of president of this Society.

Mr. Savage expressed sentiments identical with those of Mr. Atkins, and seconded the motion, which was agreed to *nem. dis.*

NOTICE OF MOTION BY MR. SAVAGE.

Mr. Savage proceeded to move the motion standing to his name. It was in these terms :--

That motions made to go into committee of the Council be adopted or rejected without a discussion, beyond an explanation from the mover as to his reasons for doing so.

He said: The motion I have read to you requires no explanation on my part. I thought that by moving this we might he able to save much talking. Any gentleman on moving that we go into committee may or may not state the cause which he deems sufficient for so doing. I think I need add nothing further, and I therefore beg to move the motion.

Mr. Shaw said: I have much pleasure in seconding the motion, I think that at the last meeting of the Council I made an observation that it would devolve on some member of the Council to move, when any ease involving some private matter eame forward, that we go into committee; and when I saw this motion on the agenda paper I determined to second it. I think that our proceedings ought to be fully reported—or, at least, as fully as possible. But I object somewhat to the manner in which it is done, and when we find that some matter which ought to be private is likely to come up, members should have the power to simply say yea or nay to its heing publie.

Mr. Symes opposed the motion in toto. He said : While I sympathise with Mr. Savage's intention-that of saving time at Council meetings-I eannot at all follow him in his recommendation. When any gentleman states to the Council his special reason why any particular question should be discussed in committee, as a rule we accept his judgment, and forthwith go into committee. But I should he sorry to see a resolution passed to compel us to do this. I prefer that it he always left a matter for judgment. At the last meeting a gentleman wished to make a remark for our enlightenment, and suggested that we should go into eommittee, hut when I afterwards heard his statement I certainly regretted that we were in committee. Now we may be troubled hy this thing being constant if we resolve to this effect. I see no necessity whatever for the resolution, and I think that the difficulties likely to be incurred will be greater than those that now exist.

Mr. Hampson also took a counter view. He said: I must oppose this resolution for this reason, that it is quite unnecessary. Hitherto we have not tied our hands in any way, and questions might arise when it would be desirable in the interests of the Society that we should discuss the propriety of going into Committee. This Council might he at some future time so constituted that the majority might desire to shirk discussion—I hope it never may—and be disposed to hide themselves under the veil of the Committee. Now this is objectionable, and therefore this resolution should not pass. I believe that the common-sense in this chamher is a sufficient guarantee that when it is desirable to go into Committee we should do so. But I object to unnecessary restrictions, and I helieve that this is unnecessary, and our experience does not show it to he desirable.

Mr. Squire said: I cannot agree with the last two speakers that it will take up more time. It seems to me that when a motion is made to go into Committee, it does not bind us. Those who do not want to do so may say so, and we shall not then waste three-quarters of an hour in discussing it.

Mr. Gostling said: I shall vote for the motion of Mr.

Savage, for it would save time if an explanation were made by one who knows a reason for going into Committee, and after having made the explanation, I think the Council should decide without discussion.

Mr. Maekay said: I take it that anyone making this motion will make a few remarks in explanation, and I cannot conceive how the members of this Council will be bound to accept the motion without discussion, seeing they have the power to vote which way seems best to them, to go, or not to go into committee. If Mr. Savage removes the power to vote then I shall dissent, but when the question is put to the vote it will be in our hands either to decline or agree.

Mr. Hills: I am sorry I eannot vote with Mr. Savage. I should like to see the same thing obtain which we have always had—when we hear the opinion of one and another person in regard to whether we should or should not go into Committee. I think it is objectionable to bind the Council with such a resolution as this.

Mr. Bottle: I should much prefer to feel that this matter was left in the unwritten law of the Society. I see this objection in it—that the mover of the motion to go into committe may have a very weak reason for doing so, while some onc else may have a very strong reason for not doing so, and if this resolution were passed he would be excluded from voting.

Mr. Atkins: It strikes me that the resolution is a harmless one, hut still I eannot support it. I think that we need not dread the result either way. I believe, however, that it is placing too much power in the hands of the gentleman who moves the resolution. But a still greater difficulty than that has not yet been referred to. I hope that the difficulty which is at the back of all this will by-and-by he removed, and that reporting will be placed on more satisfactory grounds.

Mr. Frazer briefly expressed dissent from the motion, but was not distinctly heard.

The resolution was then put, the votes being :--

For Against	•••	•••	••		•••	••	••	::	$\frac{6}{8}$
M	ajority	again	s t	••	••	••		••	2

WEIGHTS AND MEASURES.

The Secretary drew the attention of the Council to the resolution passed at the last meeting to the effect that a memorial be presented to the Board of Trade to urge the adoption of an uniform practice of stamping weights and measures. In pursuance of that resolution a suitable memorial had been drawn up (the document was handed in), and had heen duly presented to the Board of Trade. The Secretary had received a reply thereto from Mr. Farrer, appointing the following Friday for an interview with a deputation from the Council. Accordingly, the President, Mr. Williams, Dr. Paul, and Mr. Bremridge, jun., waited on Mr. Farrer, and discussed the matter, and he (the Secretary) suggested that as Dr. Paul was in attendance, he should be invited into the Council-room to make a statement. The Council concurred with the suggestion.

Dr. Paul attended, and the Secretary read the report which had been drawn up. The report stated that

"The deputation submitted to Mr. Farrer various readings of the Aet as regards apotheearies' weights and measures in different districts—e.g., that in one district the inspector had declared that only measures full to the hrim eould be stamped, thereby ignoring all graduations on glass measures. In another district the inspector had decided that glass measures eannot he stamped unless made partly of glass and partly of metal. Another inspector had refused to verify 6, 8, 12, or 16 oz. measures, or anything ahove 20 oz. A 20-oz. measure would simply be marked 1, 2, 3, 4, 5, 10, 20 oz., only seven lines on each.

"That there was a discrepancy in the rate of charge in different districts for verifying graduations.

"The deputation urged the importance of uniformity in all districts, and the consequent necessity of all inspectors heing in possession of similar apparatus for testing weights and measures, with certain instructions as to their use.

"Mr. Farrer replied that the Board of Trade had no power to issue detailed instructions as to carrying out the Act of Parliament; it could only advise the local authorities.

"He was anxious for uniformity, and suggested that the

points in doubt should be embodied in a memorandum addressed to the Board of Trade. The Board would give the matter full consideration, and send such a detailed answer as might have great weight with the district authorities."

In reply to interrogations from various members of the Council, Dr. Paul said :--Mr. Farrer stated that the Board of Trade had no power to take action; the only course open to them was to advise such local authorities as applied to them for assistance; hitherto very few such local bodies had applied; the whole matter was, therefore, practically in abeyance. If it could be shown to the Board of Trade that individuals found the new measures to be practically injurious to their trade it would be a good point gained.

Mr. Mackay hereupon remarked that he believed that the Council could influence the Board of Trade a great deal, and that possibly the Board might be induced to issue circulars to all local authorities with the requisite instructions to inspectors.

Dr. Paul said Mr. Frazer had suggested that some plan might be arranged for the Council to address itself directly to the local authorities, and so influence inspectors.

Mr. Greenish inquired whether the inspectors did not receive their instructions from the Board of Trade ?

Dr. Paul: No; not at all.

The Chairman observed that the result of the deputation appeared to be to this effect: that Mr. Farrer, speaking with the authority of the Board of Trade, was prepared to receive from the deputation or from that Society a statement of grievances or objections, and as far as possible they would give a distinct opinion on those points for the guidance of any that applied for advice.

Dr. Paul replied that Mr. Farrer reduced the points at issue to three, viz., the difference of opinion that had been met with as to procedure; the way in which the Act affects persons in the practical exercise of their business; the question of charge—an established scale of charges. Dr. Paul then retired.

Mr. Bremridge, jun., as a member of the deputation, corroborated the statements of Dr. Paul, and remarked that the impression left on his mind was that the Board of Trade were absolutely passive in the matter.

The Chairman proposed that as the matter had previously been placed in the hands of a sub-committee, it should now be referred back to them to deal with.

Mr. Hampson did not think a sub-committee competent to deal with the question; it should be referred to the General Purposes Committee. It appeared to him that when the Legislature passed an Act, it should be such a one as would be of use, else they should leave the matter alone. Yet here was an Act that was practically inoperative. There had been no end of worry at the Council concerning the matter, and now that an Act was passed it was found to be merely a permissive one, and not at all compulsory.

Mr. Robbins said that since the last meeting he had had a series of the new measures sent him to order, and, having tested them, he found they were utterly unfit for practical use by chemists.

Mr. Hampson would move that the matter be referred to the Law and Parliamentary committee. It was, however, ultimately agreed to appoint a committee to consist of the President, Vice-president, and Messrs. Greenish, Squire, Hills, Hampson, and Williams.

PARLIAMENTARY PAPERS.

The Secretary reported a communication from the Editor of the Journal explaining that some little difficulty arose at times from the want of a complete set of parliamentary papers. The partial supply existing hitherto was insufficient, and he therefore requested that the usual vote of 2*l*. 10*s*. be augmented to 16*l*. 7*s*.

The matter was referred to the Library and Museum Committee.

THE RIGHT TO USE THE WORD PHARMACY.

A letter was read from Mr. Edward Smith, hon. secretary for Torquay, asking for an official opinion as to whether a "minor" had a right to use the word "Pharmacy" or "Pharmaceutical Laboratory."

The Chairman remarked that the Council was asked to

give its official opinion on a point of law. He did not think the question wrong, but it was quite within the discretion of the Council how to deal with it.

Mr. Hampson moved that the matter be referred to the General Purposes Committee for consideration.

Mr. Squire seconded the motion.

Mr. Robbins moved as an amendment that the matter be at once referred to the Council's solicitor.

Mr. Fraser seconded.

A discussion ensued as to whether Mr. Smith referred to a definite case. The secretary said he knew very well the case to which Mr. Smith alluded. The secretary also said that Mr. Flux had previously given an opinion that members only could assume connection with the Society. Mr. Rimmington remarked that that opinion did not cover the present case. The secretary said that the question was an important one, as many who passed the Minor did not go on for the Major, and if they were allowed to imply that they were pharmacists that would detract from the dignity of the higher qualification.

Mr. Hampson withdrew his first proposal, but moved as an amendment to Mr. Robbins' motion :--

That before obtaining the opinion of the Solicitor on the question of law, the case of infringement be brought before us and investigated.

The amendment was seconded by Mr. Squire.

The amendment, on being submitted, was negatived by a majority of 4. The motion of Mr. Robbins was then carried *nem. con.*

SALE OF NARCOTICS.

The Council then went into Committee on the Sale and use of narcotics, and at the end of the discussion rose for the day.

Metropolitan Reports.

POWELL'S BALSAM OF ANISEED SUSPECTED.—On February 4 Dr. Hardwieke held an inquiry at the St. Pancras Coroner's Court relative to the death of Alice Harrison, aged 13 months. She was suffering from a slight cold, and the mother gave her three doses of Powell's balsam of aniseed. She was taken ill, and died soon afterwards. Dr. Rogers said that death was due to acute bronchitis, which he thought was accelerated by the injudicious use of narcotic medicine. The jury returned a verdict in accordance with the medical evidence, adding that they were of opinion that the use of Powell's balsam of aniseed, being of a narcotic nature, was injudicious in a case of acute bronchitis.

A JURY ON POISONOUS PATENT MEDICINES.—At an inquest held by Dr. Hardwicke on January 22, at St. Paneras, on the body of a surgical instrument maker named John Macham, the jury returned the following verdict :—" That the deceased committed suicide by poisoning himself with chlorodyne, being at the time in an unsound state of mind. The jurors are further of opinion that the most stringent measures ought to be enforced to prevent the sale of poisons in the shape of patent medicines, and that, at all events, it should be made compulsory that a label should be affixed thereto bearing the word 'Poison,' as was compelled to be done in regard to the sale of laudanum and other poisons."

Provincial Reports.

BRIGHTON.

OBTAINING A RECEIPT BY FALSE PRETENCES. — A singular action was tried in the Brighton County Court last week. Dr. Barker, a medical practitioner in that town, sued the trustees of the late Major Barry for 13*l*. 12s. The defendants paid 10*l*. into court, the sum for which the plaintiff had already given a receipt in full of all demands, but had subsequently returned. The evidence showed that the defendants had represented that Major Barry had died insolvent, upon which Dr. Barker consented to take the sum of 10*l*, as he was informed that unless he contented himself with that amount he would get nothing. After giving a receipt for that sum, however, Mrs. Barry called upon him, and in the course of conversation he related what had occurred. She indignantly repudiated the insolvency of her husband, and Dr. Barker at once returned the 10*l*. to the trustees, and claimed the amount for which he had originally rendered his bill. The Judge ruled that the plaintiff, under the circumstances, was not bound by the receipt he had given, and ordered a verdict to be entered for him for the full amount claimed.

CHESTERFIELD.

THE PATENT MEDICINE QUESTION.—A meeting of retail chemists of the above town was held at the Star Hotel on Tuesday evening, January 27, to consider the advisability of lowering the present charge upon patent medicines. Mr. H. Oldfield occupied the chair. For some years past a " cutting " firm of grocers has sold patent medicines at list prices, but in accordance with a decision arrived at about three years ago, the chemists have still continued to charge the full price. This meeting was called in consequence of several of the other grocers having intimated their intention of taking the matter up in self-defence, if the chemists did not do so. After considerable discussion, several compro-mises being suggested but not accepted, a resolution was passed unanimously that the full price be still charged for the medicines, and it was agreed that this resolution should be considered mutually binding, unless a general notice be given of a desirc upon the part of any chemist to withdraw from it.

An amicable interchange of views upon other trade questions closed the proceedings.

As it may not be uninteresting to record the arguments *pro* and *con.*, held at the meeting upon the question, we subjoin them in a tabulated form.

Question or Statement.

If the other grocers take up patent medicines, will it not do more harm to chemists than the sale being confined to the firm as at present?

But supposing that this branch of the trade shipped away from the chemists' hands altogether, a fear of which was expressed by Mr. Abraham in the last number of THE CHEMIST AND DAUGGIST?

Could not a compromise be effected, as suggested by Mr. Abraham, by charging 1s, for a $1s, 1\frac{1}{2}d$, article, 2s, 6d, for a 2s, 9d, one, and so ou ?

Could not a compromise be made by selling the most common articles, or those which can be bought the most cheaply, at the list price, and the most unusual ones at the regular price?

If, as you affirm, the system of underselling patents is little better than giving change for a shilling, how is it to the advantage of this firm of grocers to continue it?

Would it not be possible, by reducing the present prices, to so increase the turn-over as to make the profit equal to that obtained at present prices with the limit.d turn-over?

Answer.

The present firm have been so pushing, that already nearly as much harm has been done as is possible, the greater portion of the chemists' trade in those articles being done in the half-hour interval between the time of the grocer's closing and that of the chemists'.

Better let it do so than perpetuate a system which would be little better than giving change for a shilling.

No; that portion of the public which would go to another shop to save 4d, would certainly do so to save 2d, or 3d.

Such a compromise is better in theory than in practice. The public could not be expected to keep in their memory a list of those articles you did sell at list price and those which you did not, so the doubt would soon be solved by the "cutting" shop heing patronised, where no such distinction was in force.

The sale of patents is really a "draw" for other things, e,σ , cheap tca. To neet them upon their own ground, the chemist would have to sell packet tea, coffee, &c., at cost price.

The opinion of many chemists in large towns who have tried it is decidedly alverse to such a conclusion; and if the profit were only equal, the increased labour, time, &c., involved in the sale would turn the scale in favour of the present prices. Further, if the prices are once lowered, it is generally admitted that whether the experiment succeeded on failed, there would be no possibility of reverting to the present prices again.

BRADFORD.

FIRE.—On January 15 a fire broke out on the premises of Messrs. Hemingway & Son, dry-soap manufacturers, Trafalgar Street, Bradford. The firemen were soon on the spot, and

had no difficulty in extinguishing the flames. The amount of damage is roughly estimated at 2,000*l*. or 3,000*l*. Messrs. Hemingway are partly insured. The fire, it is supposed, originated in the cellars, in which fire-lighters are manufactured from sawdust and resin.

DONCASTER.

ALLEGED RECKLESS SALE OF MORPHIA. - On January 14 an inquest was held respecting the death of Leonora Hattersley, of Brierley, near Barnsley. The deceased had been in a weak condition for several years, and came to Doncaster for change of air. During her illness she had been in the habit of taking morphia, sometimes taking as many as three draughts in one night, and on arriving at Doncaster on January 12 her sister went to Mr. Hopper's shop, in Cleveland Street, for a sleeping draught. She said it must be strong, and asked the assistant to put I0 grains of morphia in each draught. He said half a grain would kill a man in some instances, and declined to make up the quantity asked for, but as she stated that her sister had taken as many as 10 grains before, he consented to make up a preparation containing five grains to each dose. There were two labels on the bottle, one stating that the preparation was to be used with carc, but no instructions as to the quantity to be taken, the other stating that it was labelled poison in compliance with the Act of Parliament. dosc was given to the deceased at eleven o'clock, but she could not go to sleep, and was very restless. After having a little brandy and water she vomited, and appeared a little better, but as she could not fall asleep she took another dose of the mixture. She then dozed off to sleep, and while asleep appeared to have a fit similar to one she had had before, and her hands and lips turned bluc. As she did not get better, her sister became alarmed and sent for a doctor. She seemed to be in a fit from seven in the morning to eight at uight, when she died. Next morning her sister went to the chemist's shop and told the assistant her sister was very ill, adding that he was not to blame, and that she believed she should have asked for chloral hydrate instead of morphia. At the adjourned inquest on January 19. cvidence was given by Mr. Allen, of Sheffield, the borough analyst, that the mixture supplied to the deccased's sister contained five grains of morphia to the ounce, and that there were six onnces of the mixture in the bottle. The jury returned a verdict that death was the result of morphia poisoning, on account of misadventure on the part of the sister and carelessness on the part of the druggist, not, however, amounting to manslaughter.

DUBLIN.

THE IRISH PHARMACEUTICAL COUNCIL.—The vacancy caused by the death of Mr. Wm. Allen was filled up by the election of Dr. Whitla, of Monaghan, brother of the late Dr. Whitla, a member of the Ccuncil. Mr. Wm. Allen, jun., whose election we had anticipated in the place of his late father, was not a candidate.

GLASGOW.

GLASGOW CHEMISTS AND DRUGGISTS' ASSOCIATION.-The fourth meeting of the session was held on February 4, Mr. A. Kinninuont, F.C.S., president, in the chair. The paper of the evening was a critique by Mr. J. A. Clarke, on the address of Dr. A. Buchanan recently delivered in Glasgow to the medical students on alcohol. Mr. Clarke discussed the functions of alcohol as a food and as a medicine, urging that it should be used only in the latter capacity. A discussion followed and a vote of thanks to Mr. Clarke concluded the proceedings.

LEITH.

ACTION FOR DAMAGES AGAINST A GALVANIST.—Sheriff Hallard has issued an interlocutor in the case wherein John McLay, sawyer, Bangor Road, Leith, sued D. Rintoul, Giles Street, Leith, for 150*l*, in name of damages for injury to his arm. The pursuer had been stabled in the right armpit, in consequence of which his forearm and hand became paralysed and devoid of sensation. He consulted the defender as to the application of galvanism or cleetricity for restoring the use of the arm, and was assured of a rapid cure. He allowed the defender to apply galvanism by means of a galanic battery, and in the course of the treatment the injurcd imb, it was alleged, was placed in a vessel of boiling hot vater, and allowed to remain there for about half an hour, with the result that when taken out the tissues were found o be destroyed, and, mortification ensuing, amputation had o be resorted to. His Lordship found for the pursuer, and, n consideration that the hand and arm were previously in a lamaged condition, thought 10% and expenses sufficient ompensation.

LITTLEDEAN.

A CASE DISMISSED.-Silas Coleman, a chemist and apotheary, of Cinderford, was charged on remand at the Police Court on January 9, "that unlawfully and feloniously, with ntent to procure the miscarriage of a certain woman named Eliza Hillman, he did cause to be taken by the said Eliza Hillman certain noxious things for the purpose of procuring rer miscarriage at the township of East Dean, in the month f September." At the outset of the case, Sergeant Ford, the rosecutor, stated that the woman would be unable to attend tor a week. Superintendent McRae having conferred with the justices, stated that he desired to withdraw the charge, and therefore he asked that defendant might be released from custody. The defendant urged that an adjournment might be ordered to enable him to prove his innocence. The bench considered this undesirable, and the chairman said the bench were of opinion that whilst the police would have been wanting in their duty had they taken no notice of the case, the justices thought it right to say that Mr. Coleman left the court without any prejudice upon his character.

LIVERPOOL.

REDUCTION OF PRICES OF PATENTS, &C .--- The Committee of the Registered Chemists' Association of Liverpool have issued to the members the following circular in reply to Mr. John Abraham's pamphlet. The circular is dated February 5, 1880:-- "Dear Sir,-In the matter of reduction of prices of proprietary articles by Messrs. Clay & Abraham, the committee took as prompt an action in the direction of maintaining the interests of the trade as the circumstances permitted. The general meeting of September 1 fully endorsed this action, and the expression of opinion was as strong as it was general, that such disturbance of established and reasonable prices was unwise and injurious; and that such a concession to the competition of persons outside of our business, whose purpose is sufficiently obvious, was a degradation. Mr. Abraham's pamphlet containing his reply to our last communication following up the action of the general meeting has doubtless been received by you. We do not feel that any fresh light is therein afforded, or the case made better. The facts remain that, giving away half the profit, twice the business must be done, and twice the outlay incurred to obtain the same amount of return; and that we have the burden of keeping a variety of articles that are rarely required, whilst these outside competitors only keep those that are of ready sale. We trust that the firmness of determination expressed at the meeting of the trade will be carried out by all its members, and that this last element of anarchy will not be permitted to spread amongst us.-We are, dear sir, yours faithfully, Alfred Redford, President; Charles Symes, Vice-President; Benjamin Dickins, Hon. Secretary.

MAIDSTONE.

POISONED BY SHEEP DIP.—The Maidstone Journal says a painful sensation has been caused in the neighbourhood of Benenden by the death of Mr. Mark Boorman, who occupied Great Nineveh Farm, and of his little sou, aged two-and-ahalf years, from taking, in mistake for sulphur, some powder which contained arsenic. At the inquest the jury returned a verdict that the deceased was accidentally poisoned. It was stated that the powder is used in sheep-dipping.

MANCHESTER.

A SILVER WEDDING.—On the evening of January 15 a brilliant company, numbering about 240, assembled in Hulme Town-hall, Manehester, by invitation of Mr. Robert Gibson, medicated lozenge manufacturer, to celebrate his silver wedding. About 7 P.M. 116 ladies and gentlemen sat down to dinner in the large hall, which was tastefully decorated for the occasion with hot-house plants, pier-

glasses, devices of flags, &c. After doing full justice to Mr. Gibson's lavish hospitality and the accustomed toasts, the company received the toast of the evening, "The Health of the Host and Hostess," with enthusiastic acclamation. Mr. Gibson, in responding, spoke for a time with evident emotion, and expressed the pleasure it gave him to have sitting by his side his maternal ancestor to rejoice with him on so auspicious an occasion. Referring to his business career, he paid a graceful tribute to his wife for the never-failing support which she had at all times given him. He owned to a sense of pride as he referred to his son, and also to his employés, some forty of whom were his guests, and who, he was proud to consider, were also his friends, and concluded by thanking those ladies and gentlemen who had honoured him by coming all the way from Scotland and other distant places to be present at this celebration. After dinner, lounge, card, smoke, and refreshment rooms were thrown open, and while whist and the "noxious weed " found devotees, the more youthful portion of the company found the large hall well adapted for dancing, which was kept up with much spirit till an early hour. During the evening Mrs. Gibson distributed to each guest a portion of a monster bride-cake, which had formed a conspicuous table ornament.

NEWCASTLE.

UNINTENTIONAL SUICIDE BY CARBOLIC ACID.—An inquest was held on January 20 on the body of Angus Phillipps Mursells aged four years, who died on that day from the effects of poison at the house of his mother, Mrs. Fanny Mursell, widow, 10 Hawthorn Street, Newcastle. Some carbolic acid had been brought into the house for destroying beetles, and the bottle containing it was placed temporarily on the floor of the kitchen. The child, who had been playing about, drank some of the contents. He soon became insensible, and died next day. Verdict, "Accidentally poisoned."

FIRE.—The premises of Messrs. Mawson & Swan, wholesale chemists, Moseley Street, Newcastle, were burnt down on January 17. The loss was estimated at upwards of 12,000?. An assistant named Leithead went to a closet to get a bottle of spirituous perfume, the bottle fell and broke, and the contents came near a lighted candle and caught firc. The flames quickly spread to the inflammable contents of the warehouse, and in an hour, in spite of the efforts of the Firc Brigade, the whole warehouse was destroyed. Leithead, who was severely burnt, was taken to the infirmary.

NOTTINGHAM.

NOTTINGHAM AND NOTTS CHEMISTS' ASSOCIATION.—The aunual supper of this association was held at the Flying Horse Hotel, on Wednesday, January 28, when 30 members aud friends sat down to an excellent repast under the presidency of Mr. R. Fitz-Hugh, Mr. Lewis occupying the viccchair. The toast of the evening, "Success to the Nottingham and Notts Chemists' Association," was proposed by Mr. F. H. Spenser aud responded to by the chairman. The proeeedings were enlivened by some good songs from Mr. Gascoyne and Mr. Mark Meats, and a most eujoyable evening was spent.

OLDHAM.

THE OLDHAM CHEMISTS' ASSISTANTS' AND APPRENTICES' ASSOCIATION.—The annual meeting of this Association was held on January 20, and was adjourned until the 29th. The President (Mr. J. Wood) occupied the chair. The hon. secretary (Mr. Joshua Naylor) read the annual report. The Association, he said, was not making rapid progress, but they were financially stronger than twelve months ago. The secretary urged employers to take a greater interest and more active part in the working of the Association, which must inevitably result to their advantage. At the same time he acknowledged that most of the important chemists of the town had hitherto given valuable pocuniary aid to the Association. Lectures, essays, and papers had been given on the following subjects :—" Opium," by Mr. Harrison ; "Dispensing and the Oxides and Oxygen," by Mr. Wood ; "Tobacco," by Mr. Bambridge ; "Tobacco and its Manufacture," by Mr. Boyd ; and "Bromine, Iodine, and Chlorine," by Mr. Yates. In addition to these, ex aminations classes, and *conversacioni* had been conducted on botany chemistry, materia medica, and pharmacy. The treasurer (Mr. Robert Taylor) stated that the expenditure for the past year had been 7*l*. 18*s*. 1*d*., and the income 10*l*. 10*s*. 10*d*. The officers for the ensuing year were elected as follows:— President, Mr. John Wood (re-elected); vice-president, Mr. John Boyd; treasurer, Mr. Robert Taylor (re-elected); secretary, Mr. Johna Naylor (re-elected). The Chairman then gave his annual address, dwelling chiefly on the business of the past year, and, expressing himself dissatisfied with the work done; hoped that the members would individually and collectively display more energy, and thereby raise the Association to a higher s'andard during the coming year.

PENZANCE.

SUFFOCATED BY A PIECE OF LIQUORICE. - On February 6 Mr. John Roscorla, borough coroner, held an inquest on the body of Absalom Bennett, who died suddenly on February 5. Deceased was taken suddenly ill about one o'clock P.M., when he complained of a choking sensation, and took a piece of liquorice to give him relief. He died almost immediately without a struggle. Mr. John Symons, surgeon, l'enzance, said that when he arrived deceased was quite dead, and, in making an after-examination, he found a large piece of liquorice sticking in his windpipe, which in all probability was the cause of his death. A verdict of "Suffocated by a large piece of liquorice accidentally sticking in the windpipe" was unanimously returned.

RYDE.

ADMINISTERING A NOXIOUS SUBSTANCE.—On page 527 of THE CHEMIST AND DRUGGIST for December last we reported au extraordinary case, in which a landlady was accused of attempting to poison a lodger by putting cod-liver oil, petroleum, and some brown liquid in her soup. The case rested on the evidence of the prosecutrix and a servant. On January 7 the case came on for trial at the Hants Quarter Sessions, when the servant swore that she had been suborned by large promises by the prosecutrix, and that all she had said before the magistrates was false. The defendant was therefore immediately discharged with a verdict of "Not guilty."

SHEFFIELD.

FIRE.—On January 24 a fire broke out in the cellar of Jos. S. Bolton, chemist and druggist, I Edward Street. It was soon extinguished, but not before considerable damage had been done.

Sheffield Pharmaceutical and Chemical Society. -The annual meeting of this society was held on January 23. Mr. W. Ward, F.C.S., &c., in the chair. The following officers were elected for the ensuing year :--President, Mr. G. Ellinor, Ph.C., &c.; vice-presidents, Mr J. Preston and Mr. Turner; treasurer, Mr. W. Jervis; joint hon. secretaries, Mr. E. Radley Learoyd and Mr. G. W. Newsholme; council, Messrs, Cubley, Ward, Carr, Burnell, Otley, Maleham, Hall, and Watts. The President delivered the inaugural address, in the course of which he said the past year had been eventful in the assembling for the first time in Sheffield of the British Pharmaceutical Conference, and expressed the great satisfaction it gave to the local members; referring to "Angellic Pharmacy," he thought it was high time a determined effort was made to protest against the manner in which money is unjustly taken out of the pockets of ehemists in various parts of the country from the incompetence or want of correct knowledge of drugs by the majority of Borough and County analysts, and especially *Angellic* ones. The question we should ask is: "Is it right we should have to pay our costs when there is no adulteration ? " He further noticed some of the amusing and variable interpretations of the Pharmacy Act, and the instructions given by some of our worthy coroners. In conclusion, he hoped to conduct the business of the society with that carc and diligence which had characterised his predecessors. Votes of thanks to the chairman and other officers for past services concluded the business of the meeting.

TUNBRIDGE WELLS.

THE ACTION OF OIL OF JUNIPER.—At page 480 of our last volume we recorded an attempt made to procure miscarriage by the administration of oil of juniper. The defendant, J. I. Crump, was committed for trial at the Maidstone Assizes. The case occupied the whole of January 15. The jury found a verdiet of "Guilty," but added a recommendation to mercy, on the ground that the young woman was a consenting party. The learned Judge passed a sentence of 15 months' imprisonment, with hard labour, taking into consideration the recommendation, and the fact that oil of juniper was not in itself so noxious assome substances which might have been used.

JEAN BAPTISTE ANDRÉ DUMAS.

A^N extra number of *Nature*, published on February 6, is devoted to a biographical sketch of Dumas, by Dr. A. W. Hoffman. The life of a chemist, who has been a leader in most of the advances of chemistry of the most rapidlyadvancing century of the world's history, must interest all. Hoffman's sketch covers 40 pages, and we have few to spare; but we may extract some of the paragraphs which touch most closely on pharmacy.

Dumas was born at Alais, in the department of the Gard, on July 14, 1800. He raised himself to the head of science in France. He has taken an active part in the public affairs of his country; he has served successively as Deputy to the Legislative Assembly, as Minister of Agriculture, as Senator, as President of the Paris Municipal Council, and as Master of the Mint of France. For many years he has been permanent sccretary to the Academy of Sciences, and is now a member of the French Academy. In 1816 Dumas travelled on foot to Geneva, where he resided many years.

DUMAS' LABORATORY.

"At Geneva Dumas found everything to expand his ideas, to stimulate his emulation, and thus to prepare him for his future career. There were lectures on botany by M. de Candolle, on physics by M. Pictet, and on chemistry by M. Gaspard de la Rive. He had, besides, the superintendence of a tolerably large laboratory belonging to the pharmacy of Le Royer, and formerly used for the courses of applied chemistry given by M. Tingry.

"The pharmaceutical students, who frequently united in botanical excursions during the summer, started the idea of winter meetings for scientific studies. Seeing that Dumas had a laboratory at his disposal, it was suggested that he should give them a course of experimental chemistry. This was his *dcbut* in the professional career. It was by no means an easy task, for although the laboratory was well provided for all pharmaceutical operations, and even for some chemical experiments of the old school, it possessed none of the modest appliances which a lecturer, even at that time, required. Most keenly felt was the utter absence of any of the implements necessary for the preparation and collection of gases. But a supply was rapidly improvised. To obtain gas-jars, lamp-chimneys were closed with watehglasses, cemented on with wax. An old bronze syringe was turned into an air-pump, and barometer-tubes bent over a flame completed the stock of apparatus."

THE FIRST PHARMACY OF IODINE.

When Dumas was about 18 years of age "he had the good fortune to make himself useful to one of the principal physicians of the town, a circumstance which contributed not a little to advance him in the circles in which he had hitherto lived. One morning Dr. Coindet came in hastily to Le Royer's. 'You occupy yourself with chemistry,'he said to Dumas. 'To some extent,' was the answer. 'Then you could tell me whether iodine is present in sponges, and more especially in carbonised sponges?' 'I will examine them for you.' Having, after some days, received an affirmative answer, Dr. Coindet no longer hesitated to consider iodine a specific against goitre. Dumas was then asked to give his attention to the subject, and to point out he preparation in which iodine might be most conveniently dministered. He suggested tincture of iodine, potassic odide, and iodised potassic iodide. Soon afterwards these ew remedies were mentioned in a German journal pubished at Zurich, and it is in this connection that the name f Dumas is first met with in scientific literature. The ame journal gave the formulæ proposed for these remedies, s also their mode of preparation. It need scarcely be menioned that at that period, so soon after the discovery of odine by Courtois, none of the iodides were known to the rade, iodine itself being the only commercial article. The iscovery of Dr. Coindet produced a great sensation all wer the world, and for many years the manufacture of odine preparations for medical purposes proved a source of vealth and reputation to the pharmacy of Le Royer."

DIGITALIS.

About this time Dumas engaged with Dr. J. L. Prevost in n attempt to eliminate the active principle of digitalis. A ong and irksome investigation produced no results.

ELÈVE EN PHARMACIE.

In the title of his first paper in the *Bibliotheque Univer*elle de Geneve, Dumas figures as "Elève en Pharmacie."

LE BLANC'S SODA PROCESS.

We must skip a long and fruitful period of this life, with nany interesting researches bearing closely on pharmacy, and urn to another phase.

Nicolas Le Blanc, the inventor of the soda process, never eaped the fruits of his splendid discovery, which is one of he most important factors in the advance of science during his century.

In 1855 the Marquis de Manoury presented to the Emperor Napoleon a petition from the family of Le Blarc, praying or a tardy recognition by the State of the services their ather had rendered to France and to the world at large. Dumas was reporter to the committee of the Academy which inquired into the matter, and from his report we glean the following interesting history.

In 1789 Nieolas Le Blanc, surgeon, asked his employer, Philippe Egalité, Duke of Orleans, to advance the money for the establishment of a factory for converting sea salt nto soda. Preliminary experiments being satisfactory the Société de la Maison-de-Seine was formed, and a document was signed in which the Duke's financial agent under took to provide 200,000 livres tournois.

The soda factory had scarcely commenced working at La Franciade, near St. Denis, when the Revolution destroyed the Duke's fortune, and the army section of the Committee of Public Safety invited the citizens to reveal the secret of any process they possessed which might prove useful in the defence of the country. This admitted no hesitating compliance, and on June 20, 1794, was published an account of Le Blanc's process, probably written by himself. After the storm of revolution had blown over vigorous but unsuccessful attempts were made to obtain suitable recompense to the inventor, but he died in 1806, broken-hearted, from disappointment and distress.

Not the least wonderful incident in this wonderful biography is that Dumas still lives in full activity and energy. In 1878 he presented to the Academy an account of some important researches on the occlusion of oxygen by silver. A beautiful portrait by Jeens accompanies the biography, and to the latter we must refer all who wish for fuller information.

UNINTERRUPTED SUNLIGHT AND AROMA.

PROFESSOR SCHÜBELER, of Christiana, has been investigating for 30 years the effect on vegetation of the almost unbroken sunlight of the short Scandinavian summer. Plants raised from foreign seeds are found to aequire increased intensity in colour and aroma. The flowers of *Veronica scrpyllifolia* become deep blue; those of *Epilobium angustifolium*, Lychnis sylrestris, Geranium sylraticum, and many other plants are far larger and more brilliant in Lapmark than in southern Sweden. Swedish-grown celery, identical in appearance with that of Covent Garden, has a sharp unpleasant taste, and Norwegian onions, shallots, and garlie are stronger than is palatable. Other observations have a very practical commercial bearing. Flückiger has found that Norwegian juniper yields much more essential oil than that of Central Europe. Schübeler shows that four, five, and even eight per cent, of oil can be expressed from uncultivated linseed grown in Norway, while in Holland, Germany, and Middle Russia no more than three or four per cent, can be obtained. His experiments have convinced him that essential oil of lavender obtained from plants grown in Christiana and Throndhjem greatly excels in aroma the oil obtained from the Merton [?] gardens, which has hitherto been esteemed the best in the world. An interesting abstract of his researches is given in *Nature* for January 29.

THE COCHINEAL INSECT.

A CORRESPONDENT of the Scientific American who has had good opportunities of observation in Teneriffe gives some curious facts about the cultivation and preparation for market of the cochineal insect.

The birth is brought about by placing the madres (mothers) in a kind of hot-house, and spreading them out thinly on shallow wooden boxes. The insects as they thus appear may be likened to grains of wheat just taken from a pool of dirty water, as they are about the size and shape, but of a dark lead colour. They have neither head, legs, nor arms, and show no signs of life; yet after being in the warm room a short time they begin to give forth their young.

These to the inexperienced cyc seem to be little white specks, as devoid of life as the mother. On close examination, however, they are found to be endowed with life and activity, and have their head and arms or legs as well formed and distinct as other insects.

The mother continues to give birth for some days. Some insects are said to give as many as 800 young ones, but they invariably die when they have brought forth their progeny.

The young once are laid on cotton cloths, which are sometimes covered in a few moments, so rapidly does the parent give birth, and some one has to be with them constantly for removing the full cloths and replacing fresh ones. The cloths as they are covered are sent at onee to the cactus, to which they are fastened by a small thorn which grows on the plant.

Once attached to the cactus, the insect forsakes the cloth and adheres to, or burrows slightly in, the plant. It soon becomes stationary, begins to grow, and assumes the characteristics of its parent—that is, loses all signs of animation, drops all its members, and becomes a part and parcel, as one may say, of the plant.

It seems to "shuffle off its mortal coil," and appears as inert and inanimate as the cactus. Notwithstanding this apparent lifelessness, it is as sensible to heat and cold as other insects. Every year the proprietor suffers more or less loss from the extreme heat sometimes felt here. This heat comes from the great Sahara Desert, and causes death to the insects by asphyxia. Early in July there were a few days of this weather, which, it is said, destroyed at least one-third of the crop. I can readily believe this, as the insects had just been "planted," or put npon the cactus; and the younger they are the more sensitive they seem to these changes of the weather. They are, however, liable to loss this way as long as 30 or 40 days after being placed on the plant, and when near to maturity.

The heat kills or stops growth, the insect dies, and drops from the cactus on receiving the slightest touch of wind or other weather. The most remarkable point concerning this specimen of the animal world is that the foregoing *only refers to the females*, as the male is a creature entirely distinct in its form and habits and mode of life.

The males are very scarce in comparison with the females —some assert in the proportion of 1 to 100,000. The male has wings, and flies from plant to plant, with a body like an ant. These visits from plant to plant give for their result the operation I described at the beginning of this article—that is, the hatching of the young insect.

FORMULÆ OF SECRET MEDICINES.

The Formulæ given below arc translated (by special permission of the author) from a German collection compiled by Mr. Edward Hahn, Apotheker. The names following most of the Formulæ are those of the authorities quoted for the analysis. The weights are almost invariably given in metric denominations. A gramme is equivalent to 15½ grains. The prices quoted are the nearest English equivalents to the original retail price.

MUNDWASSER VON J. POHLMANN—J. POHLMANN'S MOUTH WASH (Vienna).—Three kinds are made. No. 1. "Spiritus anisi compositus," 320 parts; tinctures of myrrh, cochineal, benzoin, orris, vetti-ver, spilanthes, of cach 120 parts; pellitory tincture, 20 parts; Peruvian balsam, 1 part; peppermint oil, 4 parts; mix, leave for a few days, and filter. No. 2. A filtered tincture of common and star anise, of each 16 parts; fresh spilanthes herb and pellitory root, of each 1 part; benzoin and myrrh, of each 2 parts; vetti-ver root, 4 parts; orris root, 8 parts; cochineal, 3 parts; spirit, 256 parts; peppermint oil, 1 part; cinnamon oil, 1 part. No. 3. A filtered mixture of "spiritus anisi comp." and valeriau tincture, of each 480 parts; orris tincture, 1,920 parts; spilanthes tincture, 720 parts; pellitory tincture, 60 parts; Peruvian balsam, 20 parts; cinnamon oil, 3 parts; elove oil, 4 parts; peppermint oil, 15 parts; cochineal tincture. 240 parts.

The "spiritus anisi compositus" mentioned above is made by distilling 26 parts from the following mixture :— Common and star anise, of each 1 part; spirit, $26\frac{1}{2}$ parts; water, 5 parts, and dissolving $\frac{1}{4\pi}$ part of einnamon oil in the distillate.

The tinctures are all made by digestion: Cochineal tincture from eochineal $1\frac{1}{3}$ to spirit 27; benzoin and myrrh tinctures, 1 to 27; orris tincture from 1 of the root to $13\frac{1}{2}$; vetti-ver tincture, $1\frac{1}{3}$ to 54; spilanthes tincture 1 part fresh-flowering herba spilanth. olerace to 54 spirit.— *Hager*.

MUNDWASSER VON DR. PFEFFERMANN-DR. PFEFFER-MANN'S MOUTH WASH.—A filtered tincture from star anise, 1 part; cloves, $\frac{1}{3}$ part; red cinchona, $\frac{1}{3}$ part; eighty per cent. spirit, 24 parts; peppermint oil, $\frac{1}{30}$ part. 28. 9d.—W. H.

MUNDWASSER VON HERMANN THIEL—THIEL'S MOUTH WASH (Berlin).—Spearmint, 3 parts; sage, 2 parts; sandalwood, 4 parts; water, 160 parts; spirit, 40 parts; digest and filter.—*Hager*.

MUSTANG LINIMENT OF THE AMERICANS, for sprains, rheumatism, chilblains, &c. A mixture of petroleum, ammonia, and spirit.--Vorwerk.

COOPER'S MUSTARD PAPER, OR SINAPINE TISSUE. — A sheet of vellum-post paper 13 centimetres long, 7.8 centimetres broad, transparent and nearly colourless, but saturated with a gummy solution containing the aerid ingredients of euphorbium and capsicum. It has nothing to do with mustard.—*Hager*.

J. HERRMANN'S MYKOTHANATON (Berlin). — For preventing mould in houses. A greenish-yellow fluid with a strong smell of hydrochloric acid and acid reaction; one litre contains 116 gramme iron oxide and alumina, 1.47 gramme copper oxide, 16.72 grammes magnesia, 99.9 grammes sulphuric acid, and an indefinite quantity of hydrochlorie acid. It is, therefore, the liquor left in the manufacture of earbon dioxide from magnesite and sulphurie acid, mixed with crude hydrochloric acid and 3 grammes of copper sulphate to a litre. 50 kilos. 25s. — Prof. M. Ballo.

JOHANNES MÜLLER'S MYKOTHANATON (for the same purpose).—A solution of calcium chloride, 750 parts; sodium sulphate, 1,500 parts; corrosivc sublimate, 60 parts; in water, 5,000; mixed with hydrochloric acid, 2,500 parts. — Wittstein.

VILAIN & Co.'S MYKOTHANATON (Berlin), commended as an approved preventive and destroyer of fungus in wood, houses, and wails.—A elcar, almost colourless, liquid, containing common salt, alum, sulphuric acid, and traces of iron and arsenic, dissolved in water. One litre, 1s. 6d.—Hager.

MISCELLANEOUS FORMULE.

Syrupus Stigmat. Maïs.-

Extr. stigm.	maïs			••		12 grammes
Aq. destill.			••		••	350 grammes
Sacchari	••	••	••	••	•••	660 grammes
Alcohol	• •	• •	• •	••	••	10 grammes.—M.S

A kilogram of the stigmas yield 12 grammes of extract --Jaillard, in Union Pharm.

FOR CHILBLAINS.—Immerse the hands or feet fo 10 minutes night and morning in a lukewarm solution of ϵ teaspoonful of good chloride of lime in $1\frac{1}{2}$ pint of rain water. Or rub in night and morning an ointment of 1 par of chloride cf lime and 9 parts of fat. This must be madfresh every fortnight.

SIROP DE GOUDRON DE NORWÈGE.—Sold at the Saxoni Apotheke, Dresden, as a cough medicine. A yellowish brown fluid with a strong smell of tar, made by dissolving 130 parts of sugar in 70 parts of tar water. The tar wate is made by shaking 1 part of tar with 10 parts hot distilled water, allowing the tar to separate, and decanting.—*Pharm* Zcit., xxv., 39.

KINDERMEHLE, CHILDREN'S FOODS.

DRS. N. GERBER and P. Radenhausen have published in the Schreizerische Wochenschrift für Pharmaeie some remark on children's foeds and some analyses performed during the third quarter of the current year. "Under children's foods," they say, "are commonly ineluded compounds o condensed milk with prepared cereal or other meals. Al other foods made without milk should properly figure, no under this title, but as oat, barley, or dextrine meals, accord ing to their composition. A preparation named 'Lactin, made by Grob & Kunz, of Wattwyl, has very recently appeared on the market. It is intended to make cow's millsimilar in composition to woman's. It contains : Miksugar, 95-27; salts, 2-62; water, 2-11. The salts consist of potassium chloride and carbonate, with a trace of phosphate The following is the composition of seven of the best known foods; the albuminous ingredients are not calculated by multiplying the percentage of nitrogen by 6-25, but are estimated by difference, like canc-sugar in condensed milk, special care being taken to account for everything else.

Food made by	Water	Salts	Phos- phoric Acid	Carbohydrates		Cellu- lose	Albu- men	Fibre
				Sołuble	In- soluble			
Nestlé, of Vevev	5.78	1.52	0.39	45.00	32.75	4.49	9.96	0.20
Gerber & Co.,								0.50
Thun Dr. N. Ger-	5.52	1.35	0.43	44.32	31.56	4.42	12.33	0.20
ber	7.24	2.98	0.68	41.21	23.04	5.76	18.77	1.00
Anglo-	6.34	1.75	0.33	39.82	34.48	7.08	10.02	0.50
Swiss Co., Cham	6.40	1.69	035	49*26	23.06	6.76	12.33	0.20
Oettli,	7.72	1.85	0.38	42 60	33-19	4.93	9.21	0.50
Vevey and }	6.07	1.65	0.36	42.00	33.39	5.39	11.00	0.50
Montreux) Dr. Ridge,								
London	9.64	0.44	0.16	6.64	74.75	1.15	6.38	1.00
Loble, Lon-	9.47	1.53	0.42	05.01	04.50	0.01	11.00	0.20
don	9.41	1.93	0.42	35.81	34.29	6.81	11-29	0.30

ATRAMIN INK AND VARNISH.—" P.," in the Bunzlauer Pharm. Zeit., says of atramin :—"I know of no material by which the smallest or largest quantity of ink can be prepared extemporaneously with equal certainty and speed. Atramin also serves for the preparation of a spirit varnish for lacquering dark objects of all kinds, as leather, wood, papiermaché, &c. Two or three layers on glass make it quite opaque. It should be made by preparing, first, a solution of 1 part of shellac in 3 parts of spirit, secondly, a solution of atramin in 8 parts of spirit; made with the help of the water-bath at about 40° C. and frequent agitation. The second solution must stand some hours to cool and settle, and one part must be mixed with two parts of the shellac solution.

CHEMICAL SOCIETY.

January 15.

A. WARREN DE LA RUE, President, in the chair. he following papers were read.

On the Effects of the Growth of Plants on the Amount of htter removed from the Soil by liain," by Dr. J. II. Prevost. S1 3 inches deep was placed in two glazed earthenware pls, 17 inches in diameter, on July 21; 4 grammes of white ever seed were sown in one, the other being blank. The swere exposed till October 4; the drainage water was cleeted and analysed: that from the elover soil contained 41 grains of solid matter per gallon; the other 220. The abor concludes that rain removes much more matter from a uncropped than from a cropped soil.

dr. Wynter Blyth described a simple apparatus for the tatment of substances in open dishes by volatile solvents. Te disb is placed inside a cast-iron pan, and covered with a lass bell-jar with condenser attached, the joint between the bottom of the pan and the bell-jar being made tight wh mercury.

• On Dibromanthraquinones," by Mr. W. H. Perkin. By liting bromine with anthraquinone, α dibromanthrachone is formed, melting at 245° C.; by boiling tetralimanthracen with chromic acid dissolved in a large cess of glacial acetic acid an isomer, β , dibromantaquinone is obtained, melting at 275° C. By the dion of caustic alkalies on these bodies alizarin i formed in both cases. The author discusses the fmation of this substance. In the case of the *ab* ody two der colouring matters were formed with the alizarin, one ceing mordants, the other not. The author is investigating type bodies. He appends a note, in which he concludes, a further of flavopurpurin and anthrapurpurin, and is not entical with anthrapurpurin.

Mr. Warington contributed some notes on some practical ints connected with his laboratory experience. He has ed with great convenience the indiarubber joint covered tb mercury, which was proposed by Dr. Frankland as a bstitute for the steel blocks connecting the laboratory and asuring tubes. At first the indiarubber wore out rapidly. is was prevented by tying it above the conical stopper as Il as below. He recommends the coating of laboratory ncbes, &c., by heating the wood and then rubbing in raffin. The wood is thus protected from the action of ids. In the determination of nitrates by Frankland's pros the author suggests the addition of a drop of dilute drochloric acid to ensure a complete reaction between the rcury and the nitric acid. By means of a solution of dienylamine in strong sulphuric acid, the author has tected, by the blue coloration produced, $\frac{1}{10000}$ th of a milliamme of nitrogen as nitric acid.

February 5.

MR. WARREN DE LA RUE, President, in the chair. It was announced that a ballot for the election of fellows uld be held at the next meeting of the Society, Febary 19.

The following papers were read :---

"Note on the Assumed Formation of Ozone by the Atmoheric Oxidation of Phosphorus," by C. T. Kingzett. The thor criticises a paper recently read on the above subject H. McLeod, and contends that his arguments fall to the ound because he has made a mistake in calculating the sults of his experiments.

"Contributions from the Laboratory of Tôkiô, Japan," by W. Atkinson :—

II. "On Persulphocyanate of Silver." When this yellow It is boiled with water it turns black; a mixture of sulide and undecomposed persulphocyanate being formed in oportions which vary with time, temperature, and the antity of free acid present. At the same time cyanogen sulphide is probably formed.

"On Methylated Dioxethylenamines," by H. F. Morley. eauthorhasprepared, by the action of mono- and di- methylnines on glycollic chlorhydrin, mono- and di- methyldioxhylenamine, and analysed their platinum salts.

"Note on Igasurin," by W. A. Shenstone. The author has epared this substance, obtained by Desnoix, and finds it to a mixture of brucine and strychnine.

"On some Reactions of Tertiary Isobutylic Iodide," by L. Dobbin. By prolonged shaking with a 12 per cent. solution of hydrocyanic acid or water at the ordinary temperature, trimethyl carbinol was obtained; by the action of zinc oxide at 15° , isotributylene was formed, no isodibutylene could be separated. The author has also studied the action of sodium on tertiary isobutylic iodide. Isobutylene, isotributylene, and hydrogen were formed with small quantities of a hydrocarbon not absorbed by fuming sulphuric acid.

THE PRODUCTION OF BROMINE IN THE UNITED STATES.

THE only important source of bromine in the United States is the liquid which remains often the entry title States is the liquid which remains after the extraction of salt, and which is known in the salt-making industry as the "mother waters." The Monitcur Scientifique gives a short description of the process employed in separating this important element from the saline liquors. The latter, when first pumped up from the pit, mark 9° Baumé. They are evaporated in long iron boilers to 15° Baumé, allowed to settle, then further evaporated to the crystallising point in wooden tubs heated by steam. The first crystallisation forms the salt of commerce. The tubs, five in number, are placed side by side, and every day the liquor is decanted from one to another—from No. 1 to No. 2, then to No. 3, and so on to No. 5. The crystallised salt is removed from each tub after draining off the liquid. When the brine reaches tub No. 5 it has become mother liquor, and consists principally of chlorides of calcium, magnesium, sodium, and a little enloride of aluminum, with varying proportions of bromides of sodium and calcium. Tub No. 1 is filled every day with fresh brine, so that the process lecomes continuous The mother liquor, marking 30° to 38° Baumé, is evaporated to 45°, thus separating a new quantity of salt. The liquor is then decanted into stone stills; materials for the production of ehlorine are added; and heat is applied in the form of steam, injected directly into the still, until all the bromine has been eliminated and vaporised. It then passes into a condenser, and thence into a receiver.

The production of bromine was first begun in the neighbourhood of Parkersburg, Pennsylvania, by Hegeman, a Danish chemist, formerly in the employ of the Pennsylvania Salt Manufacturing Company. His operations were at first rather of an experimental character, and there being but little demand for the product at the time, he realised from \$3.60 to \$7 per pound for what he made. The use of bromides becoming more general, however, other chemists began the manufacture of bromine, their process differing from Hegeman's only in certain modifications of detail. Herman Lemer is now regarded as the largest producer of bromine in the United States. This manufacturer was originally a poor shoemaker of Natrona, Penn., but by a rare display of energy and ability, notwithstanding his limited education, he has reached his present position. The salt regions of Ohio and the Kanawha furnish salt whose mother waters are twice richer in bromine than those of any other salines as yet discovered. It is a remarkable fact that the mother waters of the saltworks at Syracuse and those of the West contain no bromine, or at least but mere traces of it. The annual production of bromine varies considerably, owing to uncertainties in the salt trade, upon which depends the bromine trade.

The eapacity for the production of the article increased during 1875 and 1876 about three times what it was in 1874 (owing to facts just stated), but the actual production has not materially increased. The present production will reach about 1,100 pounds per day. In view of the high prices of bromides in the European markets, several lots have recently been exported. By reason of the great advantages that American manufacturers possess for the production of the bromides, it is believed that the importation of bromine, already quite limited, will soon cease altogether. The consumption of the article, in the form of the bromides, has considerably increased. During the last twelve years, bromide of potassium has been the principal salt used, but for the past three or four years, bromide of sodium, zinc, and several

other bromides have beeome very popular. The only really new application of bromine is the use that has been made of it for some months past by a Paris house in the production of a new aniline colour.-Scientif. American, vol. 46, No. 16, p. 240.

A FORGOTTEN CHAPTER IN THE HISTORY OF AN.ESTHETICS.

LECTURE by Dr. Wymans, of the Detroit Medical A College, is reported in the Detroit Lancet, on the subject of "Holland Oil." It may easily be abridged into a few paragraphs. The lecturer eredits his information to Professor Franck.

In 1771 Van Sweiten was 71 years old, and enjoyed an omnipotenee in seienee which only Humboldt has since enjoyed. On May 1, 1771, three young gentlemen were introduced into his study. Like the professor, they wore their hair without powder, combed down their backs, on a black coat elosely buttoned, which eovered every trace of euffs or linen. "What do you desire, my children?" asked Van Sweiten, who was a devout Catholie, and held between his tingers a string of beads, blessed by the Holy Father and given him by the Empress Maria Theresa.

"We come to teach Van Sweiten that which he knows not," answered one of the visitors.

"You will not have much trouble in doing that," replied Van Sweiten, smiling.

"We come," said one of the young gentlemen, "to show the author of 'Aphorisms of Medicine' a medicine he has mever seen.'

"The deuee," sneered Van Sweiten; "your patronage begins to displease me."

Not the least disturbed by the sardonic smile of the eelebrated professor, the third young gentleman expressed himself in these terms : "Like the philosophy of antiquity, we speak to Pain : You are only an idle word, and we will prove "Then you speak of a miraele?"

"We are ready to realise it in your presence."

Van Sweiten told them that the days of mysteries and mystifications had passed.

"We repeat it to Dr. Van Sweiten. We possess a secret by which we can suspend life and annihilate pain long enough to perform a surgieal operation."

"Very well; eome to morrow to my clinic, and demonstrate the proof of that which you pretend to know.'

He dismissed them with a gesture, and went at onee to the Empress Maria Theresa, to whom he related the singular visit that he had received. Maria Theresa, who entertained the most affectionate regard for Van Sweiten, and had not only made him baron, but made him her first physician, was at this moment embroidering a pair of ruffles for the old savant, who refused to wear any but those provided by his sovereign.

The result of his interview with the Empress was that she declared her intention to witness the experiment.

The next day the three strangers operated at the clinie in presence of Vau Sweiten and a lady elad in black, whose face was covered by a thick veil. They went to work without hesitation, manouvred the furnaces and retorts, previously prepared, and soon had a mastiff inhaling a liquid as it distilled. The animal commenced to exhibit symptoms of inebriation, and soon fell full length upon the ground, like a cadaver. One of the strangers now made a large ineision upon the dog's chest, and eovered this wound with a surgical dressing; the animal gave no sign of pain, and little by little began to breathe, raised himself up, got upon his feet, and walked about as though nothing unusual had transpired. "It is a miraele, a real miraele !" eried the Empress. "A miraele that we can repeat any day, at any hour."

"And you will not hesitate to operate in that way upon a patient?

"No, master; we do not hesitate."

"Then experiment on me," said Van Sweiten, advancing towards the three young gentlemen.

They grew pale and trembled.

"Are you afraid? Are you not certain of success?"

"We will experiment upon ourselves all that you wis But upon an old man, the pride and glory of Germany!" "They are right !" interrupted the Empress. "Not the hasty, gentlemen.

She dismissed the three strangers.

Reports of these experiments made great excitement Vienna, but the almost sudden death of Van Sweiten 1 gangrene of the leg, which occurred on May 18, only a fe days after the experiments at the elinie, diverted public a tention. Doubtless the grave political questions that abo this time confronted the reign of Maria Theresa efface from her memory the mysterious anæsthesia that she ha witnessed, for nothing more was heard of the experimen nor of the Holland oil (huile des Hollandais), nor of i's i ventors, although one finds in the works of that day th recipe for this oil alongside of those for the liqueur d calloux (silicate of potassa), liqueur d'Or (liquor of gold General Lamotte), and the liqueur de Van Sweiten (pe chloride of mereury).

There exists no trace of these chemists, who eertainly di eovered anæsthesia. None of their public experiments hav been published. Professor Franek thinks that one of the was Gautier Von Doeoren, a physician of Flemish Holland

THE CINCHONA AND OTHER PRODUCTS OF CEYLON.

ME most important pharmaceutical product of Ceylon L undoubtedly Cinchona. Our share in the world's bar harvest is still small, but will rapidly increase. London ha imported from the British East Indies during the last thre years, in 1876, 1,415 ewt.; in 1877, 4,564 ewt.; in 1877, 4,504 ewt.; in 1877, 4,597 ewt. The total imports of bark in these years, chieff from New Granada, Peru, and Ecuador, was 26,021 ewt 34,900 ewt., and 53,886 ewt.

Cinehona sueeirubra is the variety most favoured in Cey lon. In many parts it is grown along road sides, and in th gaps in bad fields of eoffee. On the Dimbula Company estate, where there are seventy-three miles of paths, 600,00 trees have been planted out. A report from the Badull District states that nurseries of einchonas are found on moestates, and a correspondent of the Ceylon Observer says i is worth while to visit the Madamahanuwara District to se how much can be done on blown land with rich soil b judicious felling and careful selection of sites. Here, and a Rangalle and Knuckles, einchona is progressing rapidly an promising well. Mr. Frank Peto writes from Viearton that he has planted 40,000 succirubras. In other parts of thi district (Dimbula) planting is rapidly extending.

It is found that the trees flourish best at elevations morthan 2,500 feet above sea level. For instance, the Dimbuk Company's estate is 4,500 feet above the sea. But the Ceylo eorrespondent of the Madras Times publishes an analysis o a red bark grown at an elevation of about 2,400 feet, whie showed total mixed alkaloids 4.03 percent., and quinine sul phate 2.06.

A planter at Rambodda, who has a considerable aereageo einchona three or four years old, has refused 500*l*. an aere fo it, valuing it at 620*l*. The editor of the *Ceylon Observe* confirms this, stating that the amount offered was 40,000l.

Red bark from trees nearly five years old, grown in th shade at Deltota, has sold at Is. 8d. to 3s. a pound.

Bark is exported in eases of 800 lbs., the freight to Eng land costing 50s. to 3l.

London agents assure the planters that greater eare ex pended on sorting the bark before export would materiall, inerease its market price. Good erown bark, worth 5s. 6d. : pound, has been found, in eases of red, worth 38. to 48.

Numerous insect and other enemies attack the tree in it various stages. Trees grown at elevations too low ar attacked by a kind of cancer which injures the bark. It some eases the roots of the seedlings are destroyed by som unknown "pooehie," as insect pests are ealled here. Litth sooty beetles nip through the stem just above ground appa rently in wanton mischief. Swarms of small brown ant-lik spiders are found where this has been done. A boring beetle happily not very common as yet, attacks the stems of grow ing trees, committing fearful ravages; and monster gree

aterpillars feed on the leaves. In Ceylon the white, and in ladras the black, coffee grubs have transferred their attenons to the cinchonas. Syringing with kerosene and water, recommended some months ago in THE CHEMIST AND **RUGGIST** is found to be an effectual protection against me of these "poochies." Mr. Morris, who has recently een transferred from the Botanical Gardens here to nose at Jamaica, writes to the Ceylon Observer that e has begun his work for his new home by examining cinchona disease which appears to be rather prevant there, and which he has seen in Ceylon also. It is ue in the first instance to a cracking of the bark exposing he lower cambium. In this fissure a small fungus estalishes itself; it ultimately attacks and eats away the soft mbium along a whole strip. After a time the bark derived of its vital part dries up, and when touched it sounds ollow and often falls off, exposing a longitudinal scar with e wood discolouring underneath. If the fungus works and the tree it rings it; the top gradually dies down, and he tree is destroyed. The larches at home sometimes suffer 1 the same way.

Cinchona cultivation in other parts of the world naturally xcites much interest here. George King, M.B., F.L.S., uperintendent of cinchona cultivation in Bengal, has ecently published "A Mannal of Cinchona Cultivation in ndia," giving full information on every point. Just two ears ago the acting commissioner for the Nilgiris announced the Madras Government that the supply of moss required n the cinchona plantations was rapidly becoming deficient. le was directed to prepare a scheme for its conservation, nd in papers dated June 12, and recently published, he ecommends that the collection of moss should be prohibited etween January 1 and May 1, and that a seigniorage should e levied on it. The first suggestion has been adopted, but s the conservation will entail watching the moss collectors, nd the acreage of cinchona cultivation is largely extending, t is considered wiser to levy a small charge per aere of inchona-planting, whether Government or private property. "he Government reserves the right to prohibit the collection f moss in districts where it is deemed necessary. A correpondent of the Observer, writing on October 4 from Neddivutteem, in Southern India, says .-

"The demand for seed increases rapidly; we are not able o execute the orders fast enough. The Government prohibit he exportation of Calisaya seed until the demand from the Vynaad and Ni'giris is met. The season for this seed is past ong ago.

"Our monsoon has been heavier than usual, but a very fine ne indeed for the new estates; some hundreds of acres of fficinalis have been planted this season. Private parties ave gone in largely for nurseries lately and apparently make good thing out of it. The deliveries of seedlings are estinated at upwards of 25 laes, the greater number being red arks, to the Wynaad and Coorg. Next year the deliveries vill be much greater, as I have heard of one order of 30 laes. "We have not lost any cinchonas this year, I am glad to ay, and we do not lose our young plants in patches, as is he case with you.

"I have just finished stripping a plot of fourteen acres of ed barks, thirteen years old, which has yielded upwards of 0,000 lbs. green bark, or 19,000 lbs. dry; fully two-thirds f this is renewed bark worth 6s. per lb. This is the fifth rop given by the trees. There is no improvement in the abour supply; the average number in to date is but one-third t half cooly per acre."

That the same trees yield a fifth crop of bark in their thireenth year is a great encouragement to growers of red barks who have facilities for mossing.

The season's crop of einchona bark from the Government states in Madras is estimated to yield about 150,000 lbs. Up o the beginning of October 450 bales of 100 lbs. each had seen despatched to London. Last year the Madras Governnent realised something like four lacs of rupees (40,000*l*.) rom the crop of bark. If the quality of the bark and the prices keep up to last year's average, the amount realised will considerably exceed last year's receipts.

The Government Cinchona plantations, in Bengal, which have an area of 2,000 acres, yielded 250,000 lbs. of bark during he year. Of the out-turn of febrifuge manufactured from he bark, 5,500 lbs. were supplied to Government medical lepots in the three Presidencies, and the rest was sold to the public. A profit of about half a lac was obtained on the operations of the season.

We learn from the New York World that a Mr. Morris started thence this summer intending to explore the Amazon and to visit the forests of Cinchona, found in 1875 by an explorer near the head of the neighbouring Rio Iça. The journey will, in all probability, consume about four years, and it is quite possible that the forests will be found already stripped and practically destroyed.

Next to cinchona, cinnamon is the most important medical production of Ceylon. The market is in a very depressed state. Cinnamon has been grown wherever it could be during the past few years, and over-production has brought it down from 83 cents a pound, at which it sold two years ago, to 56 cents at the present. (The cent is 100th part of a rupee, the nominal value of which is 2s.)

Quotations here vary from 7d. to 2s, a pound, according to quality. The cost of peeling is $4\frac{1}{2}d$, a pound; freight to England by steamer is 50s, to 60s, a bale or bag of 800 lbs, and cultivation, supervision, and other expenses are so heavy that einnamon property, worth 500 rupees an acre five years ago, could now be had for less than 200 rupees. The jungles of Uva, in the Kandyan district, are full of an undergrowth of cinnamon. It is quite a custom for low country Cingalese to visit the distriet to cut forest einnamon, but the price is so low at present that a "peeler" is rarely seen. It has been suggested that where the altitude is too great for the successful cultivation of cinnamon bark the seeds might be utilised by expressing the fatty oil they contain. Very little indeed is known about the subject at present, but we await further development. The hard times for coffee and cinnamon planters have directed much attention to new crops.

Cacao has been introduced, and seems to promise well in some districts. White ants are the most dangerous *anti*cacaoists.

Ginger and cardamoms both grow wild in the jungles, but are little appreciated by the natives, Cardamoms are being cultivated in several districts, and have produced crops so profitable that they have astonished their owners. Vanilla, cloves, sago, and the blue and red gum are cultivated to a small but increasing extent.

Chemists' Assistants' Association.

ANNUAL DINNER.

O^N January 28 the Chemists' Assistants assembled at the Holborn Restautant for their annual dinner. In spite of a dense fog, nearly a hundrel sat down to an excellent meal. Professor Redwood was in the chair, supported by Prof. Bentley, Drs. Muter and Paul, Messrs. J. Moss, A. P. Luff, and Smart. Mr. Branson, the President, filled the vice-chair. The toasts of the "Royal Family" and the "Medical Profession" received their accustomed attention, and Prof. Redwood then proposed the toast of the "Pharmacentical Society." The founders of the Society, he said, had with perfect disinterestedness devoted their time and talents, their money and mears, to improve the education of those who immediately became their most formidable com petitors. He coupled with the toast the name of John Moss, and the enthusiasm with which this name was received put the Society far in the background.

The Association, Mr. Moss said, in responding, had disappointed the fears of some and the half-hearted hopes of others, who had expected small things of it. The spirit of independence which led to its formation was praiseworthy, and it was wise to bring the peaceful pipe and the sociable eigar into the company of scientific papers.

cigar into the company of scientific papers. The toast of the evening, "The Chemists' Assistants' Association," was responded to by Mr. Branson, who was received with musical honours. Dr. Paul was toasted as the representative of the Pharmaceutical Press. In proposing the health of the "Visitors" the Chairman praised Dr. Muter's efforts in the cause of pharmaceutical education. Dr. Muter rejoiced that old jealousies had at last been healed. Mr. Branson proposed the health of the President.

Some excellent songs, music, and recitations by the members enlivened the proceedings.



Commission on Sale of a Business.—Johnson r. Emsley.

AT the Clerkenwell County Court on January 16 was heard a claim made by plaintiff for 101. 10s., being commission on the sum of 620l, purchase-money of the defendant's business, chemist, at Notting IIill, less 5*l*. paid.—Plaintiff was traveller for Messrs. Silverlocks, chemists' printers, and calling on defendant was asked by the latter if he could get him a purchaser for his business. Plaintiff said defendant offered to take 650*l*, everything included, and would pay plaintiff a commission of $7\frac{1}{2}$ per cent. Plaintiff wrote to Mr. Raynor, who communicated with Mr. Bumpstcad, who bought the business. On plaintiff sending in a note of his claim he received an answer stating that defendant would shortly see him and settle his indebtedness, but would have had nothing to do with him if he had known that plaintiff was a chemists' agent. Defendant afterwards sent plaintiff a 51. note.-Defendant denied that he undertook to pay plaintiff any commission. Had promised that if plaintiff got him a purchaser at 6507. he (defendant) would make him a present .- His Honour gave judgment for plaintiff, with costs.

RACKHAM'S PATENT MEDICINES.

In the Chancery Division of the High Court of Justice on January 16, Mr. Chitty, Q.C., moved, on behalf of the plaintiff in a case of Smith v. Rackham, for an injunction to restrain the defendant from advertising, vending, selling, or offering for sale a number of medicines, which he described as Rackham's cough pills, castor-oil pills, gout pills, and tonic compound pills, and several others which were named. According to the statement, which was an *ex parte* one, the plaintiff purchased the defendant's business, and paid him the money for it, and a deed was executed to that effect, which purported to vest in the plaintiff all the defendant's patent medicines and trade-marks, and the defendant undertook not to manufacture at any time thereafter, as principal or agent, any of the said medicines, or in any way use the said trade-marks or names without the consent, in writing, of the plaintiff; and that he would not, either directly or indirectly, vend the said medicines or any such articles, except as Mr. Smith might sell to him. The Master of the Rolls : And you have not sold him any ? Mr. Chitty : No. The learned counsel went on to say that the defendant had flooded the market with hand-bills of his mcdieines, representing them as his. Hand-bills to the number of some 20.000 had been circulated. The Master of the Rolls, after looking at the bills and advertisements, said Mr. Chitty might take an injunction. If was not sure that he was not entitled to ask for more than he did ask—to restrain him from holding himself out as the proprietor of the medicines. He would grant an ex parte injunction in terms of the claim.

The action for restraining Mr. Rackham from infringing the names and trade-marks which he had sold came before the Master of the Rolls again on January 30.—Mr. Chitty, Q.C., said that the defendant had eonsented to the injunction being made perpetual, and would pay the costs.—Mr. Buckley, for the defendant, would give up everything.— The Master of the Rolls said he must say that he did not give up anything.—Mr. Chitty: Not even his pills. The injunction would be made perpetual, and a deeree drawn up to that effect, and so an end be made to the action.—The Master of the Rolls, after conferring with the Registrar, said the Registrar would not accept it that way. They did not do business in that style in the Registrar's office. The decrec to be pronounced.

STEALING CHEMICALS.

AT the Central Criminal Court on January 15, before the Recorder, Henry Harbard, 40, and William Stephens, 24, were indicted for stealing 100 lbs. of certain powders from Messrs. May & Baker's chemical works at Battersea. Mr. Poland conducted the prosecution, and the prisoners were defended by Mr. Spratt. Harbard had been employed at these works for about ten years until three years ago, when he was discharged because he had taken to drink. Last Junc he and Stephens were charged at Greenwich Police Court with being in illegal possession of a white powder, then believed to be, as they had stated, white lead. The prisoners said they had taken it for a debt. They were on that occasion remanded for a fortnight and afterwards discharged, and the bags containing the powder returned to them. A witness named James Carpenter, who was training Stephens for a running match, said that the prisoners had asked him if he could dispose of some pepsine, some red and white precipitate, and some calomel. The pepsine Stephens said he got from Morson's, the mercurials from May & Baker's. The former he said he got through a "pal"; the latter, when the police were changing. Stephens said, "You can have any amount of red precipitate and white calomel, as we can get any amount of it; we have already filled up, our customers." Carpenter communicated with the police and on their advice he agreed to meet prisoners and take from them some calomel. The prisoners brought some to Waterloo Station, where Carpenter and an inspector awaited them, and they were taken into custody. Mr. William Garrad Baker and Mr. Thomas Tyrer, partners in the firm of Mr. William May & Baker, proved that their November stock of calomel was deficient to the extent of 103 lbs. The calomel was unfinished : that is, not sifted. Both partners believed the powder produced was of their manufacture. There were distinct appearances by which they could identify it. Mr. Baker said they had not missed any before. They manufactured tons of it, and a hundredweight would not be easily missed unless they checked the books. Mr. R. Taubman, manager for Messrs. Morson & Son, said that some bottles of pepsine found at Stephens' place were theirs, but he could not say that they had not been bought. One of the empty bottles had been put up for export trade, and would not be likely to be purchased for retail.

The prisoners, in defence, endeavoured to prove that the calomel which they brought to Carpenter was the same powder as that which they had when taken into custody at Greenwich. The jury, however, found them guilty, and the Recorder, after severely commenting upon the infidelity of servants generally, and observing, that these men had, without doubt, tampered with the fidelity of this firm's employe's, sentenced them each to five years' penal servitude.

INFRINGEMENTS OF THE PHARMACY ACT.

ILLEGAL SALE OF POISONS-SALE OF BATTLE'S VERMIN-KILLER BY A GROCER.

At the Newcastle-on-Tyne Borough Police Court on January 15, William Wright Brewis, grocer and patent medicine vendor, of 1 New Street, was summoned by the secretary of the Chemists and Druggists' Trade Association of Great Britain for contraventions of the Pharmacy Act 1868. He was charged with having unlawfully sold to W. F. Haydon certain poison, to wit, Battle's vermin-killer, being a preparation of strychnine, in a certain packet the cover of which packet did not set forth the name or address of the seller of the same. That the said sale was effected, the purchaser being unknown to the seller and not introduced to the seller. That the date of the sale, the name and address of the purchaser, and the name aud quantity of the article sold were not entered by the seller in a book kept by him for that purpose, contrary to the statute in such ease made and provided.

Mr. George Rowell, solicitor, Newcastle, who appeared for the defence, said he should advise his client to plead guilty.

Mr. Glaisyer, of Birmingham, having stated the case to the Bench,

Mr. Rowell said:—In this case I shall ask your worships to impose a merely nominal penalty—My client is a grocer carrying on an extensive business in this town. Some little

ime since he took out a licence to enable him to sell patent medicines and such like articles. By accident one of the rticles of which he then took into stock, a very small quantity indeed—half-a-dozen packets, I believe, was the actual quantity-was Battle's vermin-killer. It is a wellknown article, sold hundreds of times every day, in the way ny client has sold it, for domestic purposes, and not at all or medical purposes. A private detective goes to his shop ind buys a packet of this poison, and thereupon three summonses are issued against my client.

Chairman of the Bench : You made use of an observation that a private detective went to your client's shop and pought this poison, whereas the purchase was made by the complainant himself.

Mr. Rowell: Mr. Haydon is the secretary of the Chemists and Druggists' Trade Association, and I have no doubt he nakes it his duty to get up prosecutions of this kind.

Chairman of the Bench: That is quite another matter,

Mr. Rowell: I hardly think that my friend means to ask or more than one conviction.

Chairman of the Bench : Your remarks as to this poison being sold in hundreds of cases in the same manner in which t has been sold by your client is not only no reason why our client should not be punished, but rather the contrary; and we must say that we are sorry to find from your statenent that there are numerous instauces in which the law as been broken and the public safety endangered. Every veek almost there are persons poisoned by taking this ermin-killer, and if your client reads the papers hc must ave seen these cases, and he ought therefore to have been nuch more cautious as to its sale.

After conferring, the Chairman said the magistrates would mpose a penalty of 40s. and costs in the case of one sumnons, and the defendant must pay costs in the case of the ther two summonses.

SALE OF POISON BY AN UNQUALIFIED CHEMIST.

T the Leeds Borough Police Court on January 16, before W. Bruce, Esq., stipendiary, Hubert Murray, trading as a hemist and druggist, at 110 Kirkgate, Leeds, was charged vith having on October 29, 1879, unlawfully sold to W. F. Haydon, oxalic acid, in a certain packet the cover of which acket did not set forth the name of the seller of the same, contrary to the statute iu such case made and provided.

The defendant pleaded not guilty.

Mr. Glaisyer: I appear to prosecute in this case, instructed by the secretary of the Chemists and Druggists' Trade Assoiation of Great Britain, by whom the information is laid. The summons is issued under the provisions of the 17th secion of the Pharmacy Act, 1868. The facts of the case are hortly these :- On October 29 last Mr. Haydon went to the lefendant's shop, No. 110 Kirkgate, Leeds, and purchased rom an assistant, who gave the uame of Backhouse, two ennyworth of oxalic acid. The packet was labelled "Oxalic kcid. Poison. Edward Boothman, Druggist, 110 Kirkgate, leeds." The parcel was subsequently analysed by Mr. Iaydon and found to contain oxalic acid. Oxalic acid is a boison enumerated in Part 2, Schedule A of this Act. The lefendant is wholly unqualified to sell poisons scheduled inder the Act, not being a registered chemist and druggist, out he attempts to do so under cover of Boothman's name; Idward Boothman, a registered chemist and druggist, who ormerly owned the business now being carried on by the lefendant, has been dead some years. The defendant is the enant of the premises at 110 Kirkgate; he has been reguarly rated for those premises, and has paid rates for many ears.

Mr. Haydon having proved the facts as stated by Mr. laisyer,

The Defendant said: I am not a chemist, I admit that; ut I thought I had done all that was necessary in carrying n my business by means of a qualified man.

The Stipendiary : Do you say your assistant is a qualified erson?

The Defendant: He is not a registered chemist and lruggist, but he has had a great deal of experience. We sell ery little indeed of this oxalic acid.

The Stipendiary: In this case the defendant is charged with selling poison which is not labelled with the name of he seller-

The Defendant: It is labelled with Boothman's name, and I am carrying on the business in Boothman's name.

The Stipendiary: That is so; but that is just what the law says you must not do. The full amount of the penalty appears to be 5l. I shall order in this case that you pay a penalty of 50s. and costs.

The Defendant: Can't you mitigate the penalty, your Worship?

The Stipendiary: You don't appear to understand me; the full penalty is 51., and I have reduced it to half that amount. You must understand that every day you carry on this business you are trading in an illegal manner, and are liable to be sued for penalties for trading as a chemist without qualification.

The Defendant: Then what am I to do with my business? The Stipendiary: You must obey the law, or you will have the Pharmaceutical Society or some other body suing you for further penalties.

ATTEMPTED EVASION-EXTRAORDINARY EVIDENCE.

AT the Birmingham Police Court on Thursday, January 22, before A. Hill, Esq. (chairman), Alderman Biggs, and A. J. Elkingtou, Esq., Thomas Theophilus Hutchinson, trading as a chemist and druggist at 23 Summer Lane, Birmingham, appeared to answer a summons taken out by the Sceretary of the Chemists and Druggists' Trade Association of Great Britain, for an infringement of the 17th section of the Pharmacy Act. He was charged "That he did, on the 2nd inst., unlawfully sell to W. F. Haydou a certain poison, to wit, oxalic acid, in a certain packet, the cover of which packet did not set forth the name of the seller of the same." The defendant pleaded guilty to selling the poison, but said he sold it on behalf of his employer, Mr. Thomas Powers, a registered chemist and druggist.

Mr. Glaisyer, iu opening the case, said that Mr. Haydou went to the shop of the defendant, at 23 Summer Lane, on the 2nd inst., and there purchased twopennyworth of oxalic acid from the defendant himself. The packet was labelled "Poison—oxalic acid. T. Powers, dispensing chemist, 23 Summer Lane, Birmingham," and the contents were subse-quently analysed by Mr. Haydon, who found it to contain oxalic acid, which is a poison enumerated in Part 2, Schedule A of the Pharmacy Act, 1868. According to the 17th section of that Act, which is the section on which this prosecution is based, and which was read by Mr. Glaisyer, the defendant is not authorised to sell poisons.

Defendant: I beg your pardon; I may sell poison for my employer if he is a registered chemist and druggist, I suppose.

Mr. Glaisyer: The defendant not being a registered chemist and druggist is not qualified to sell poisons, and to get over this difficulty he trades under the name of Powers. Powers, I believe, has nothing whatever to do with the business, but is otherwise engaged at Stratford-on-Avon, where he resides. I understand the premises at 23 Summer Lane are rented by the defeudant, and that he pays all the rates and taxes.

Chairman of the Bench: You say the defendant is the tenant.

Mr. Glaisyer: That is so. If the defendant disputes this I shall ask for an adjournment to produce the necessary witnesses to prove it.

Defendant: I have been in the trade nineteen years, and during that time I have sold poison for my employer. opeued the shop in Summer Lanc aud engaged me to manage the business.

Mr. Biggs : It is stated you are the teuant?

Defendant : I pay the rates indirectly.

Mr. Biggs: Do you raise a question by saying you are not the tenant-do you admit the tenancy?

Defendant : Yes, I do.

Mr. W. F. Haydon, having proved the purchase and the analysis of the oxalic acid, said the defeudant was uot qualified to sell such poison, his name not appearing in the lastpublished register of pharmaceutical chemists and chemists and druggists. The name of Thomas Powers appeared on that register as residiug at 8 West Street, Stratford-on-Avon. He had made a journey to Stratford-ou-Avon, and called at 8 West Street. It was a private house, and the lady whom he saw there informed him that Mr. Powers resided there, but

was not at home, and that Mr. Powers was a dispenser to a Mr. Lucy, a surgeon practising in the town.

Magistrates' Clerk : Have you seen Mr. Powers?

Mr. Haydon : I have not.

Defendant: Why did you not make it your business to see him ?—He would have told you it was his business, and that I managed it for him.

Mr. Haydon : I have no doubt he would.

Defendant: Mr. Powers has speculated 250*l*. in this business, and will come forward and say it is his business.

Chairman of the Bench : Is he herc ?

Defendant: No, sir.

Chairman of the Beneh: Do you wish an adjonrnment? Defendant: Yes.

Mr. Glaisyer: I have no objection to raise to the case being adjourned.

Chairman of the Bench: We adjourn the case for a fortnight.

The adjourned hearing of this case came before the same magistrates, in the same Court, on February 5, 1880.

Mr. Thomas Powers was ealled and sworn.

" Magistrates' Clerk : What have you to say, Mr. Powers?

Witness : My name is Thomas Powers, and I am a registered chemist and drnggist.

Cross-examined by Mr. Glaisyer.

Where do you carry on business, Mr. Powers ?—In Summer Lanc, at No. 23.

You don't reside there, do yon?-No; Mr. Hntchinson manages my business for me.

Where do you reside ?- At Stratford.

In what capacity are you there engaged ?--I am doing nothing now.

What interest have yon in this business at Summer Lane? -He manages the business for me.

On what terms are those premises held in Summer Lane? —I don't know what you mean.

What is the nature of the tenancy of the premises in Summer Lane?-They are taken yearly.

Have yon taken the premises yearly ?-No; Mr. Hutehinson took them.

In your name ?- Yes.

You did not take the premises yourself ?-No.

When were the premises taken ?-- I don't exactly know.

What rent do you pay ?-That I don't know.

What are the premises rated at ?--I don't know; I have troubled nothing about the matter.

Do you know who is the landlord ?-No.

Chairman of the Bench: And yet you call this your business?

Mr. Glaisyer : Does the Bench consider that I need proceed further ?

Chairman of the Bench: I think not.

Mr. Elkington: Have you ever had any profits from the business ?—Yes, sir.

Chairman of the Bench : Have you ever taken any part in directing or conducting the business ?— No, I left it entirely to Mr. Hutchinson : he took the business, and I lent him my name.

How much money did you find for it ?- About 2001.

Has he repaid that ?- No ; he pays me interest for it.

Mr. Elkington: It is a mere loan of capital and nothing else.

Defendant: In 1867 we saw a good place for opening a chemist's shop. Mr. Powers found everything, and placed me there as his assistant; and he derives a certain amount of profit.

Mr. Elkington : He said he lent you the money.

Defendant: It is his business until the money is repaid.

Mr. Elkington : He said you paid him interest.

Defendant : He must have made a mistake.

In reply to further questions from the magistrates, the deendant said the pr of ts of the business were divided between imself and Powe rs, but that he had no balance-sheet, and as unvole to produce any written agreement that they had a 12.

T1: B: nc'i considered the case proved, and fined the feiling 203, and costs.

THE NAME-LENDING SYSTEM-ANOTHER CONVICTION

At the Birmingham Police Court, on Thursday, January. 1880, before A. Hill, Esq. (chairman), Alderinan Biggs, a A. J. Elkington, Esq., Theodore Morris, trading as a chem and druggist at 199 Lodge Road, Birmingham, was summon by the Secretary of the Chemists and Druggists' Tra Association of Great Britain for an infringement of t 17th section of the Pharmacy Act, 1868. He was charg with having, on the 2nd inst., sold laudanum to W. Haydon, in a bottle, the label of which did not set forth t name of the seller of the same.

Mr. Henry Glaisyer, solicitor, Birmingham, appeared prosecute. The defendant conducted his own defence.

Mr. Glaisyer, having explained the section of the Pharma Act on which the summons was based, said: On the seco day of this month Mr. Haydon purchased at the shop of t defendant, 199 Lodge Road, two pennyworth of laudanu The bottle was labelled "Poison, Laudanum. R. D. Hught chemist, 199 Lodge Road." The contents of the bottle we, subsequently analyzed by Mr. Haydon, and found to contalandanum, a preparation of opium. Opinm and its prepartions are enumerated in Part 2, Schednle A, of the Act. Tl defendant is wholly inqualified to sell poisons schedule under the Act, not being either a pharmaeeutical chemist (a chemist and druggist; but he appears to do so nucler covof Hughes' name. The defendant is the tenant of the pramises at 199 Lodge Road, and has paid rates for the premises.

Mr. W. F. Haydon, having proved the purchase of the landunum as stated by the solicitor, said that defendant name did not appear in the last published register of pha maceutical chemists or chemists and druggists. The nam of Riehard David Hughes appeared on that register as

chemist and druggist residing at 18 High Street, Denbigh. Magistrate's Clerk : You do not deny selling this poison,

suppose ? The Defendant: No, but there is the name of the proprietor on the bottle.

Chairman of the Bench: How long have yon been at the shop?

The Defendant : Eighteen months.

Chairman of the Bench: Was the shop taken in Mr Hughes' name?

Defendant : No, I opened it as a drysalter.

Magistrate's Clerk: Did Hughes ever live on those pre

mises ? Defendant: No, but he has been backwards and forwards to Birmingham.

Mr. Elkington: Are you Mr. Hughes' assistant, and paid by him as such?

Defendant: I am a salaried assistant, and over a certair sum all the money made out of the business belongs to me I am the tenant of the premises, and pay the rent, rates, and taxes.

Chairman of the Bench: Do you ask for an adjonrnment to call Mr. Hughes as a witness? If not we must decide the case on the evidence given.

Defendant: I would rather the case was settled now.

Chairman of the Beneh: You must pay a penalty of 21s. and eosts, or, in default, one month's imprisonment. I hope full publicity will be given to this case.

PROSECUTION BY THE PHARMACEUTICAL SOCIETY UNDER THE 15TH SECTION OF THE PHARMACY ACT.

At the Birmingham Connty Conrt, on February 6, 1880, before Mr. Motteram, Q.C., Judge, Joscph Guest Earp, trading as a chemist and druggist, at 22, 23, and 24 Cheapside, Birmingham, was such by the Council of the Pharmaceutical Society of Great Britain, by Mr. E. Bremridge, the Secretary of the said Society, by the authority of the said Council, for an infringement of the Pharmacy Act. The particulars given on the summons were as follows:--"To amount of penalty incurred by the defendant on July 29 and Angust 12, 1879, in selling and keeping open shop for the retailing, dispensing, or compounding of poisons or poison, contrary to the provisions of the Pharmacy Act, 1868, 31 and 32 Vict. cap. 121. Penalty 51." Mr. Grainger (instructed by Messrs. Flux, Slade & Co., solicitors, London) appeared for the p'aintiffs, and Mr. Stubbins (structed by Mr. Cheston, solicitor, Birmingham) appeared f the defence.

Mr. Stubbins: Allow me, before the case is gone into, to caw your Honour's attention to the particulars given in the snmons; they neither state what was the poison sold, nor they give us any information as to the person to whom the poison was sold. There is no information as to whether iwas selling or keeping open shop for the sale of poison, bether it was dispensing poison, or whether it was comjunding poison, that constitutes the offence for which the nalty is demanded.

Mr. Grainger: This action is taken under the 15th Section the Pharmacy Act, 1868. The words of the Act of Parliaent are as follows:—" From and after December 31, 1868, by person who shall sell or keep an open shop for the tailing, dispensing, or compounding poisons, or who shall ke, use, or exhibit the name or title of chemist and ruggist, &c. . . . shall for every such offence be liable to by a penalty or sum of 5L, and the same may be sued for, covered, and dealt with in the manner provided by the harmacy Act for the recovery of penalties under that Act; it nothing in this Act contained shall prevent any person om being liable to any other penalty, damages, or punishent to which he would have been subject if this Act had it passed."

The Judge: That means, you know, that each of those ings is an offence against the statute; but you must state specific offence, and if more than one offence has been mmitted, you should state each of them.

Mr. Grainger: We rely upon the defendant having kept pen shop for the sale of poisons.

The Judge: What you say is this: the defendant has sold oison, but you do not state what poison, and so long as it a poison within the meaning of this Act, I do not think matters much that he has also kept open shop for the stalling, dispensing, or compounding of poisons. Then, as o the name of the purchaser, if Mr. Stubbins wanted the ame of the purchaser he should have asked for it.

Mr. Stubbins: I have followed the usual rule of this fourt,

The Judge: If the question raised is important, I shall ake time to look it up; at the present I cannot see it is of mportance whether the poison was sold to Smith, Jones, or columon.

Mr. Stubbins: I hold in my hand a conviction against my tlient by the magistrates under this same Act of Parlianent, and it is very important that I should have full particulars upon which this prosecution is based. We are charged here with no specific offence, but with selling and keeping open shop for the retailing, dispensing, or compounding of poison or poisons; but what it is my client has sold or kept open shop for retailing, dispensing, or compounding, or to whom he sold, or for whom he dispensed or compounded poisons, is not mentioned in the summons.

The Judge: You are charged with all those things, and if it is found you did any one of them you are subject to the penalty claimed. One penalty only is sued for. You say, I don't know the name of the purchaser; you will know the name of the purchaser, and if, after that name is given you, you find any difficulty I will hear what you have to say.

Mr. Grainger: I will give my friend the name. Mr. William Frederic Haydon was the purchaser of the poison.

Mr. Stubbins: We are still without the name of the poison sold.

The Judge: I think it would have been better if the charge had been more specific as to the offence committed, but I do not see, Mr. Stubbins, in what way your client's case is prejudiced by the omission of the particulars you have named. If you had asked for particulars, and particulars had been refused by the other side, you would have been entitled upon that to an adjournment at their cost, or you might have served interrogatories; you have done neither, but have laid quietly by until the case is called on; then you say "I have not been furnished with the name of the purchaser," although it does not matter whether it is Smith or Jones. Mr. Grainger gives you the name, then you say you have not the name of the poison; well, I have no doubt Mr. Grainger will tell you that also. I will not allow the defendant to go to trial if you can show me that

he will be seriously affected by fuller particulars not having been given, but I cannot yet see that he will be in any way prejudiced. Be good enough to say in what form you would like the declaration amended, and then I will see if I can allow that alteration to be made.

Mr. Stubbins: It is not for me to do that.

Mr. Grainger: I am quite willing to take this offence only, that is to say the keeping open shop for the retailing, dispensing, and compounding poisons, and I will not go into any other offence.

Mr. Stubbins: Then, my friend, in doing that does not follow the words of the statute, which are, "keeping an open shop for the retailing, dispensing, or compounding poisons." They are separate offences, and I must know what is the particular offence my client has committed, as he has already been fined before the magistrates for an infringement of this Act.

Mr. Grainger: The conviction referred to by my friend was under the 17th Section of the Act, that section imposes penalties for improper labelling of poisons. That is quite a distinct offence. A conviction in the Police Court under the 17th Section can have nothing whatever to do with an action in this Court under the 15th Section.

The Judge : Are you prepared to prove all this, that the defendant sold poison and kept an open shop for the retailing, dispensing, or compounding poisons.

Mr. Grainger: I can prove that poisons were bought in the defendant's shop, and therefore it follows that he must have been keeping open shop for the retailing of poisons.

The Judge: If you are able to prove both offences it is oue thing, if only one of them that is another. I think you must amend the summons in some way. Put it in a way that you are able to prove it.

Mr. Stubbins: It will be in my opinion a great prejudice to the defendant to have these particulars amended at this stage. I call this a persecution and not a prosecution at all. My client is first of all fined by the magistrates, and then——

The Judge: I will not listen to that.

Mr. Stubbins: I must say this, that my client having been proceeded against at the Public Office——

The Judge: I know nothing about that. If you cau satisfy me that your client is in any way prejudiced I will give you every facility for placing him in a position to go to a fair trial.

Mr. Stubbins: What are we charged with? Wc don't knew what we have to answer.

The Judge: You are making a fuss about nothing.

Mr. Stubbins: Had the name of the purchaser been given in this case we should then have served interrogatorics, and I should have interrogated for a special purpose.

Judge: The amended summons is as follows:---"To amounts of penalty incurred by the defendant for keeping open shop for the retailing and selling of poisons as a poison contrary to the provisions of the Pharmacy Act, 1868 (31 & 32 Vict., cap. 121), to wit on July 29, 1879, to one William Frederic Haydon one pennyworth of oxalic acid and one pennyworth of white precipitate, and on August 12, 1879, to the same person one pennyworth of oxalic acid, defendant not being a duly registered pharmaceutical chemist or chemist and druggist." What can you want more than that ?

Mr. Stubbins: We didn't have that before.

The Judge: But you have it now, and you can interrogate if you like. I cannot meet those matters which you dou't choose to tell me. If you show me that you are prejudiced, I will take care that you are not.

Mr. Grainger: The plaintiffs in this case are the Council of the Pharmaceutical Society of Great Britain, and the charge against the defendant is that of keeping an open shop for the retailing, dispensing, or compounding poisons. As I have already informed your Honour, it is an action brought under the Pharmacy Act, 1868, for the recovery of a penalty of 51. I shall be able to prove to you that Mr. Haydon, who is a pharmaceutical chemist, went to the defendant's shop, 22, 23, and 24 Cheapside, in this city, on July 29 of last year, and there purchased a pennyworth of oxalic acid and a pennyworth of ammoniated mercury or white precipitate powder, and that on a subsequent occasion, on August 12 of the same year, he purchased from the same shop a pennyworth of oxalic acid. The defendant's name is over the door of the shop, and the paekages in which those poisons were sold were labelled with the name and address of the defendant. Mr. Haydon has analysed the contents of these paekages, and he will tell you that he found them to contain oxalic acid and ammoniated mercury, both of which poisons are poisons within the meaning of this Aet. I shall prove to you by the register of pharmaceutical chemists and druggists, which is evidence of itself, that the defendant's name does not appear in that list. The 13th section of the Act provides, "And the absence of the name of any person from such printed register shall be evidence, until the contrary shall be made to appear, that such person is not registered according to the provisions of the Pharmaey Act or of this Act."

Mr. W. F. Haydon was called, and proved the facts as stated by Mr. Grainger. On the first oceasion the oxalic acid was labelled with the word "poison" only, the white precipitate powder was labelled "white precipitate, poison, Joseph G. Earp (late Buszard), druggist, 22, 23 and 24 Cheapside, Birmingham." On the second oceasion he purchased a pennyworth of oxalic acid, which was labelled with the word "poison" only. He had analysed the poisons, and found oxalic acid and white precipitate powder respectively. The defendant's name is over the door of his shop, but it does not appear in the last published register of pbarmaceutical chemists and ehemists and druggists.

Cross-examined by Mr. Stubbins: Have you ever taken out a summons against the defendant ?—Yes, in the Police Court, in my official capacity of secretary to the Chemists and Druggists' Trade Association.

And the defendant was fined, I believe ?—Yes, 1*l*. and costs.

When was that summons taken out ?—I eannot remember the exact date; it would be in October, I believe.

Your memory is pretty good as to the dates on which you visited the defendant's shop to make these purchases, but you eannot remember when you sued my elient in the Poliee Court ?—The dates on which I purchased the poisons at the defendant's shop were placed upon the packets purchased at the time of purchase, and are still there.

Did you take out the summons after August 12 ?-Yes.

And you sued my elient on one of the packets of poison mentioned in the aniended summons, on which a penalty in this Court is now asked for ?--No, that is not so. I sued the defendant in the Police Court under the 17th section of the Pharmaey Act, for having sold to me on August 8 last, a eertain poison, to wit oxalie acid, the eover of the packet of which poison did not eontain the name and address of the seller of the same.

Mr. Grainger: That is my ease.

Mr. Stubbins: There is no proof that the defendant has sold poison.

Mr. Grainger: I have proved that the defendant kept an open shop, and that poisons were sold at that shop.

Mr. Stubbins did not address the Court for the defence. The Judge: I find a verdiet for the plaintiffs with costs.

Bankruptcies and Liquidations.

HENRY LESSEY BLORE, Manchester.

A MEETING of the ereditors of Henry Lessey Blore, earrying on business at 1 Withy Grove, Manchester, as a wholesale groeer, and at 46 Oldham Road, under the style or firm of "Jonathan Brown & Co.," as a druggist and drysalter, was held on January 23 at the offices of Messrs. Farrar & Hall, 79 Fountain Street, solicitors. The statement of affairs prepared by the receiver, Mr. J. A. Eastwood, 49 Princess Street, accountant, showed liabilities to unsecured creditors, 3,890*l*. 11*s*. 6*d*.; ereditors fully secured, 6,625*l*.; value of securities, 8,350*l*.; surplus to second mortgagee, 1,725*l*.; ereditors partly secured, 10,536*l*. 19*s*. 5*d*.; value of securities, 4,625*l*.; creditors for rent, rates, taxes, &e., 26*l*. Assets, eonsisting of fixtures, fittings, and furniture, 505*l*.; stockin-trade, 1,804*l*. 18*s*. 10*d*.; book debts, estimated to produce 3,011*l*. 11*s*. 11*d*.; eash in hand, 800*l*. Liquidation was resolved upon, Messrs. Eastwood & Eckersley being appointed trustees with a committee of inspection.

In re John Cooke.

THE debtor filed his petition in March last, describing himself as of 126 Hoxton Street, chemist and druggist, and dealer in photographic chemicals and apparatus. He furnished a statement of affairs showing liabilities to the amount of 1,669*l*. 17*s*. 10*d*., and assets 1,560*l* 15*s*. 11*d*., the following being the principal creditors :—

	£ s. d.
Albion Albuminising Company, Hammersmith	52 12 3
Atkinson, J. T., 33 Manchester Street, Liverpool	. 55 12 10
Bishop, W., 174 St, John Street, E.C.	. 86 13 11
Bowerbank, E., & Sons, Sun Street	19 19 9
Charconnett & Laverne, Paris	33 5 0
Clarke, J., & Son, Birmingham	. 124 5 11
Cooke, Miss Jessie, High Street, Hoxton	18 0.0
Dallmeyer, J. H., 19 Bloomsbury Street	10 8 0
Distloffe, G., Berlin	. 147 3 6
Edwards, J., Dale Hall, Burslem	. 41 3 5
Greenwood, H., York Street, Covent Garden	26 6 9
Hodgkinson, Stead & Treacher, Aldersgate Street	50 18 10
Houghton, George, & Son, High Holborn	25 19 3
Huggon & Co., Park Row, Leeds	. 10 2 6
Howards & Sons, High Street, Stratford	
	. 91 10 9
Hutinet, D, Paris	19 5 5
The second state of the second s	. 114 1 2
Johnson, Matthey & Co., Hatton Garden Johuson & Sons, Cross Street, Finsbury	39 13 3
Taxan Taxbara Taxbarad Daylar Hallanse	. 13 8 9
Martin 1 & D. Mart Church	16 3 2
M - G. 9 ml - A 12 - A Chart	01 5 0
ar i mu cá ár ta	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	about 38 4 2
Mantukash Charles & Co. Dused Street T.C.	10 5 0
Manufactor B. Ca. Minutes Tana	
D' and C that Change TC	1 1 1 0
	10 0 0
	. 13 0 0
General & General Change I	0. 0 10
months days a figure day such as fit and M	00 0 0
	0. 0 0
	10 10 0
Taylor Brothers & Fox, Crown Buildings, E.C	00 0 *
Thomas, R. W., 10 Pall Mall	1. 0. 0
Trapp, L., & Co., Budge Row, E.C.	01 15 0
Wiss, C., King Edward's Place, Birmingham	61 15 6

The case was brought before Mr. Registrar Murray on January 26, upon the hearing of an application by Mr. Maitland on behalf of the debtor to restrain proceedings against him in an action at the suit of Mr. Max Neustadt, wholesale ehemical merchant, 25 Mineing Lane. Under the petition filed by the debtor resolutions had been passed for the acceptance of a composition of 13s. 4d. in the pound, payable by certain instalments, and the same were duly registered. It was submitted that the creditor was bound by the resolutions, and that the action could not be allowed to proceed. Mr. Theodore Lumley opposed the application, and said it was alleged that the debt had been contracted by fraud. Mr. Maitland denied the allegations of fraud, and contended that some *primâ-facie* case ought to be made out before the ereditor was allowed to proceed with his action. His Honour, however, held that as fraud was alleged the question would have to be deeided in the action and not by the Court. He therefore deelined to grant an injunction, and reserved the costs.

In re HARRISON & YOUNG.

THE adjudication in this case was made upon the petition of Lloyd's Banking Company, Birmingham; the bankrupts being described as of Abbey Lane, West Ham, manufacturing chemists, and the first meeting under the bankruptey was held on the 3rd inst., before Mr. Registrar Brougham. The statutory accounts were not filed, but the following ereditors proved against the estate :—

	æ	5.	u.	
Lloyd's Banking Company.	1,297	17	7	
Walker, W. & F., Ida Street, Limehouse	- 38	5	4	
The Pooley Hall Colliery Company, Stratford Bridge	36	5	4	
Hands, John, & Sous, Birmingham	24	2	0	

Resolutions were passed for the appointment of Mr. C. A. Harrison, accountant, of London and Birmingham, as trustee, together with a committee of inspection, and March 4 was the date fixed for the bankrupts' public examination.

In re C. J. WRIGHTSON.

THE debtor was a lentilla manufacturer, carrying on business at 21 Cardington Street, under the firm of "James & Co." He had filed a petition for liquidation, and Mr. Finch applied last month for registration of the resolutions passed by the creditors. The liabilities were returned in the accounts at 1,767*l*. 15*s.*, and assets 293*l*. 9*s.* 8*d*. It was resolved that the estate should be liquidated by arrangement, Mr. James Boyes, accountant, Poultry, being appointed trustee, together with a committee of inspection. Mr. Registrar Pepps, in the absence of any substantial objection, directed registration.

Personalities.

SOCIETY OF PUBLIC ANALYSTS.—At the general anniversary meeting, held at Burlington House, on January 14, Dr. Muter was re-elected president for the ensuing year.

MR. ARCHIBALD, of Workington, retires from the business he has carried on there, and is succeeded by Mr. William Bownes.

MR. W. E. MILLARD, formerly associated with Messrs. R. H. Millard & Sons, has established himself at 17 Farringdon Road, where he works Mrs. Batchelor's hair colour restorer and some other specialties.

MR. JOHN SELLERS, lately a partner in the firm of Mackey & Sellers, is now carrying on business by himself at 17 Farringdon Road as a manufacturer of select pharmacentical preparations and a few specialties, such as mist. bismuthi co. and quinquinine.

MR. G. D. MACDOUGALL has been appointed public analyst for Perthshire. Mr. J. Napier has been appointed public analyst for the borough of Ipswich, and also for East Suffolk. Mr. Carter Bell has been appointed public analyst for Stalybridge.

MR. BRYANT, of the firm of Bryant & May, has agreed to present a statue of Mr. Gladstone to the East-end of the Metropolis, which is to be executed in Sicilian marble, and will be erected either on the space in front of. Bow Church or the space in front of the Bow Vestry Hall.

ONE of two prizes of 50*l*. cach, offered by the president of the Institute of Chemistry of Great Britain and Ircland, for the best original researches involving gas analysis, has been awarded to Mr. Leonard Dobbin, son of Mr. William Dobbin, North Street, Belfast, who is at present studying at the University of Würzburg, Bavaria.

FRANK WILTON, who on January 20 was sentenced at the Central Criminal Court to eight months' imprisonment as a fraudulent bankrupt, was previously well known in the wholesale drug trade. After being an assistant for some years with Messrs. Burgoyne & Burbidge, he commenced business on his own account as an export merchant, but after ten months' trading he failed with a deficit of over 9,0001. This occurred in the spring of 1878. His subsequent transactions in the woollen trade have brought him within the scope of the criminal law.

DR. S. S. WHITE, of Philadelphia, whose death at Paris we mentioned last month, was the chief maker of teeth and dental apparatus in the world. His factory in Philadelphia cost half a million dollars to build, and in it 300 hands are employed, and 4,000,000 teeth are sent out from it annually. Dr. White was the proprietor of the Dental Cosmos, and for many years had exercised a powerful influence on the dental literature of his country. His manufactures took the highest diplomas at several of the chief international exhibitions of the past ten years. The father of the late Dr. S. S. White died when the latter was only eight years of age, and the widow, assisted by her son, kept herself and family by a candy store in Burlington, New Jersey. At the age of 14 the lad got into the establishment of an uncle, who was a dentist and manufacturer of artificial teeth, and his subsequent career and brilliant success followed as the result of a thorough mastery of his business. At his death his property was estimated at $1\frac{1}{2}$ million of dollars.

MYSTERIOUS DISAPPEARANCE.—The following appeared in the Daily Telegraph of the 12th inst.:—A correspondent writes: "On Saturday, the 24th ult., at about 8 P.M., Edwin Godfrey Chipperfield, aged 17, of small stature, 5 feet 2 inches, and of a timid and nervous disposition, left the house of his employer, Mr. Lowe, pharmaceutical chemist,

Surbiton, which is close by the railway station, intending to journey, *viâ* Waterloo and Farringdon Street, to his father's residence at New Barnet, with the purpose of spending Sunday with his family, which he was accustomed to do once a month, and has not been heard of since. He was wont to walk the distance between Waterloo and Farringdon Street Stations. The only articles of value he had about him were a silver watch, a gold scarf-pin, and some *Ss.* in silver. He carried a small leather bag, with his name engraved on its nickel lock, which might readily have been mistaken for silver. He was about the last lad voluntarily to absent himself, even if he had had the pecuniary means."

MARRIAGE.

HERRING—GWILLIAM.—On January 15, at Christ Church, Whitley, Reading, by the Rev. Dr. Stanley, Principal Chaplain H.M.'s Forces, Aldershot Camp, assisted by the Rev. Matthew Powley, Vicar of the parish, Henry William Herring, of Lawn House, Barnet, and Aldersgate Street, London, eldest surviving son of the late Rev. Henry Lee Warner Herring, formerly of Wood House, Stanstead, Essex, to Frances, youngest daughter of S. Gwilliam, Esq., of Reading.

Materia Medica.

BALSAMUM SALICYLICO-BENZOINATUM.

THIS balsam, called Benzoëbalsam in Germany, is a cheap and good substitute for Peruvian balsam, and is used in veterinary practice. Slight wounds and excoriations smeared with it generally heal in a few days. It is thus prepared :---

Bruised Siam benzoin	 				arts 100
Pitch	 				15
Salicylic acid	 				10
Gurjun balsam	 	••	••		4 0
Absolute alcohol	 ••	• •	••	8	500

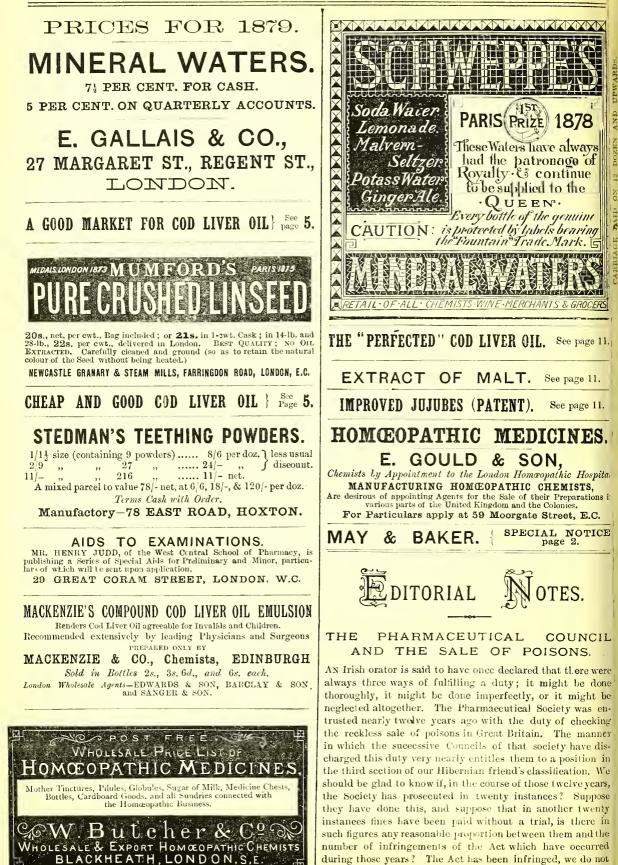
Digest for some hours, with frequent agitation; allow the sediment to deposit; strain and filter. Then distill by the heat of the water-bath till part of the spirit is driven off, and reduce the cold residue to the consistence of thin syrup by adding alcohol.—*Pharmaceutische Centralhalle*, 1879, p. 408.

CINCHONA IN CALIFORNIA.

PROFESSOR HILGARD, in the California Horticulturist, gives some particulars of the experiments now being made to introduce the cinchona-tree into California. Five packages of fresh cinchona seeds were received from India some months ago by the director of the Economic Garden of the University of California. These seeds represented five different species of cinchona, viz., C. succirubra, C. calisaya, C. officinalis, C. condaminea, and C. hybrida. Professor E. W. Hilgard writes in the California Horticulturist that the calisaya germinated most readily. At present there are growing in the propagating house of the Agricultural Department of the University several hundred healthy plants of each of the five So soon as the trees are sufficiently advanced they species. will be distributed to the various sections of the State of California, where the climate gives promise of success, there to be tried by careful and competent persons. The accounts received from India and Australia of the success of the cinchona in those countries encourage the belief that some of the five species will prove hardy both as regards cold and drought in the coast region south of San Francisco, and in the more sheltered portions of the bay region. There the summer fogs and the uniformity of temperature seem to pre-sent the main conditions known to be requisite for the growth of the cinchona, which appears to be a tree of considerable adaptability.

THE JIVAROS OF THE PINTUE, natives of part of South America, between Santiago and the Marañon, have the habit of vomiting every morning by the aid of a feather, arguing that all food remaining in the stomach through thenight is unwholesome and undigested, and should therefore be rejected.

[February 14, 1880.



hesitate to say, thousands of times a year. The Council may

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within the past of their duty to search for such infringeacts, but it is at least open to question whether they have a sufficiently vigorous in their action in regard to those all have been brought under their notice. It is certain he within the past twelve months the Trade Association, i only the 17th section of the Act to work with, have i'm more publicity to the poisons' regulations than the characteristic for the previous ten years.

e correspondence which appeared in the daily papers a e weeks ago respecting the abuse of narcotics directed vic attention rather prominently to the facilities for bining poisons, and though several of the correspondents etedsomewhat unfortunate instances, we cannot think that he criticism of the Pharmaceutical Society was altogether neserved. A coroner and a journalist between them a hed the strange idea that because an offender had paid the calty for illegally selling poisons rather than go to law, it v possible to "square" with the Society. Of course every nlemeanour can be "squared" in that manner. The teleman who pathetically described how he had been able oet a prescription containing morphia prepared by several lr gists, though the medicine was rapidly ruining his heth, made out a very good ease for his own subjection to reraint, but hardly proved the necessity for a prosecution of harmacists en masse. What was clearly proved, howw, by the correspondence was that there is a public leand for a rigorous application of the Pharmacy Act in uters where it is not obeyed, and it can hardly be supod that the existing illogical exemption of poisonous nt medicines from the sale of poisons clauses would t d for an hour if attacked in earnest. We observe that the Pharmaceutical Council has gone into committee on this si<mark>ject of narcotic poisoning, and we hope that whether they</mark> by forth any new scheme or not the result of the recent ation will be to infuse more vigour into their adminisrion of the law as it stands, in the interests both of the the and of the public.

DISPENSING PRICES.

M FRANCIS R. HULLAH, writing on February 6 to the T es, states that a chemist in Bond Street charged him 3s. c preparing a prescription containing 16 grains of chloral it oz. of water with a little ginger to flavour it. A few l's later the same prescription was made up at the "ores" where Mr. Hullah usually deals, for 8d. If the fes are correctly stated, which we do not doubt, we cannot b sympathising to a great extent with Mr. Hullah. We d not think the public will expect chemists to compete wh co-operative stores. Customers who wish their medito be dispensed on the same commercial system as that b which they buy their coals must take their chances at the stes. But these would not be many. Every chemist ws that, as a rule, the public are disposed to trustfulness. B it is too true that certain West-end chemists in their hte to be rich have taken advantage of this trustfulness, a have based their charges not at all on cost, but on an e mate of their client's resources. We have no hesitation aying that the price named as having been charged for medicine in question will astonish chemists generally; a yet it is very unfortunate, but very certain, that the trade g erally has to suffer for the unfair rapacity of a very small stion.

wo days later "Æquitas" wrote as follows in the *Times*: For the lower price of the stores your correspondent to complains of the chemist's price can only obtain dicine, however pressing the emergency, during 44 hours othe week, while at the chemist's he can be served any

hour, day and night. Surcly the difference of cost is but proportional to the difference of security arising from medicines being obtainable at the chemist's at any time—a consideration most material when health, perhaps life, are at stake."

FAILURES IN 1879.

LAST month Mr. Richard Seyd, F.S.S., published his usual analysis of the failures of the past year in the United Kingdom, which provide some slight ground for satisfaction. The total number of failures in the year was 16,637. In 1878 the total was 15,059, and in 1877 11,022. This, as it stands, does not seem very hopeful; but the monthly analysis presents an almost regular record of improvement, the reason of which is not very casy to get at, because even if the revival of trade, which seemed to begin about September, were as genuine as its best friends could hope for, its effects on insolvents could hardly be expected to exhibit themselves yct. Mr. Seyd gives the following figures for the months respectively :- January, 1,618; February, 1,596; March, 1,562; April, 1,546; May, 1,494; June, 1,174; July, 1,393; August, 1,252; September, 1,173; October, 1,354; November, 1,264; December, 1,211. So that it appears that there were 8,990 failures in the first six months of 1879, against 7,647 in the latter half of the year. These figures include wholesale, as well as retail firms, and professional mcn. Taking the wholesale trades, the difference in the two half-years is still more striking. There were 970 failures up to June 30, and only 614 from then to the end of the year. The following extracts from Mr. Seyd's compilation will present some features of interest :----

20	41	June 13	Dec. 17	Total 30
8 76	43 96	16 46	31 50	47 96 92
	in 1877 20 	20 41 8 43 76 96	in 1877 in 1878 en June 20 41 13 8 43 16 76 96 46	in 1877 in 1878 ending, 183 June Dec. 20 41 13 17 8 43 16 31 76 96 46 50

THE REGISTRAR-GENERAL.

THE appointment of Sir Brydges Henniker to the position of Registrar-General has been resented with great unanimity by the medical profession as a most unwise, as well as ungenerous, slight on Dr. William Farr, whose 40 years of scrvice as the head of the Statistical Department constituted a claim which most persons will think superior to Sir Brydges Henniker's relationship to Lord John Manners. It is curious how persistently all Governments perpetrate these miserable "jobs." Nothing destroys their prestige more rapidly or more certainly, and yet they cannot help indulging in them. The matter of Dr. Farr will doubtless be heard of several times in Parliament. Mr. Anderson, on the 6th inst., asked a question on the subject of Mr. Sclater Booth, who said in reply, that Dr. Farr's state of health was alone sufficient to make it inexpedient to appoint him to the office of Registrar-General. Mr. Anderson was not satisfied with the answer, and announced that he would call further attention to the subject. In acknowledging copies of the resolutions recently passed at a meeting of the South London District Metropolitan Counties Branch of the British Medical Association, the Premier, through his private secretary, states that he is "highly sensible of the eminent services rendered by Dr. Farr during his past career, that he well knows how to appreciate them, and that Her Majesty's

Government had excellent reasons for the course which they considered it their duty to take." The "excellent reasons" we fear are only too obvious.

PROFESSORS AT HOME.

ON January 28 a case came before the Court of Exchequer which lifts for a moment the veil hiding from ordinary gaze the inner life of one of our nests of learning. Robert Galloway, late professor of chemistry in the Royal College of Science at Dublin, brought an action against W. F. Barrett, then and still professor of philosophy in the same institution, for libel; damages were laid at 10,000l. Evidently philosophy must be a good business if Mr. Barrett can afford to libel his colleagues at such a rate. We should not like to have to trace the squabble to its commencement. It is very probable that the learned professors had not for some time past occupied themselves exclusively with the tranquillising studies of chemistry and philosophy respectively. At last some complaints of Mr. Galloway's, about a porter apparently, were put before the governing body, and Professors Hull and Barrett were appointed to investigate. A report was drawn up, and to that Mr. Barrett added a tag, which constituted the alleged slander. According to Professor Galloway this tag said in effect that he (the plaintiff) had made serious charges against this porter, and then had not come forward to substantiate them. Subsequently, whether consequently or not we do not know, Mr. Galloway had been dismissed from his professorship. Mr. Barrett's defence was that the alleged slander was privileged, and that it did not bear the construction which had been placed upon it. A long technical argument followed as to the privilege, at the end of which the Lord Chief Baron was about to give judgment against the plaintiff, when, on the request of counsel for the latter, an opportunity was given to join issue in fact. The case is therefore yet undecided.

PRICES OF DRUGS IN BRISTOL.

THE well-known firm of Ferris, Boorne, Townseud & Boucher, of Bristol, after a successful career of more than a hundred years, have announced within the past fortnight, suddenly, and without any previous conference with, or notice to, their fellow-chemists of that city, a "new system of retail trading, based npon the principles adopted by the various London and provincial co-operative associations." They are stating their intentions in column advertisements in all the Bristol journals, and they have posted 24,000 copies of their new price-list to Bristol families. According to a copy of their price-list, they accentuate the temptations to the public to which we have now become accustomed. Castor oil, 10d. per lb.; Epsom salts, 2d. per lb., or 7 lbs. for 9d.; glycerine, 1s. per lb.; pills, 6 dozen for 1s.; adhesive plaster, 6d. per yard; patents at 9d. for most $13\frac{1}{2}d$. articles; arc specimens of the new departure.

We are not now discussing whether the principle adopted by thesegentlemen is a wise one or not. Certainly its success must mean an equivalent injury to the other druggists of Bristol and the neighbourhood. The time seems to have passed, however, for sentimental considerations of that kind. But the trade can hardly fail to contrast the method in which Messrs. Ferris have seen fit to act with the courtesy displayed towards his fellow-chemists by the *doyen* of Liverpool pharmacy, when he judged it desirable to modify his tariff in one section of his business. We gave details of that affair last month.

The Bristol chemists have always had the reputation of exceptional intelligence, and we expect that they will meet

the competition forced on them with courage and abi_{f} . They may be sure that the public cannot do with chemists, nor can a city like Bristol conveniently do h one pharmacy. Messrs. Ferris & Co. will not monopolis us trade there, and if unfair profits are abandoned, pharmy, we believe, will continue to be a business moderatelymunerative for the expenditure of personal attention, buit will never be a suitable business for the mere investment capital, which is what it would have to be if Messrs. Fis system of trading were founded on correct econoral principles.

ANALYSM.

"At the fortnightly meeting of the West Ham Local B d, held at the Town Hall, Stratford, on January 30, MB, Rivett in the chair :—

"Dr. Tidy, the public analyst for the county of E_{x_i} attended the Board to meet a complaint made of delim returning samples of milk and butter forwarded to hir or analysis, and stated that he had not been aware of the ε_{x_i} in the Act which limited the time to 28 days within vis summonses must be taken out."

Ignorance of the law is no sound defence, even for zyman; what must be said when the servants of the law by forward this plea?

ARSENICAL PAPER - HANGINGS A NEW CHANCE FOR THE PHA-MACY ACT.

MR. HENRY CARR, C.E., has set himself the task of breag up the trade in arsenical paper-hangings. We have previly noticed a pamphlet by this gentleman on the subject,* d last month a paper written by him was read befor a Society of Arts on "Our Domestic Poisons," in vib arsenical paper-hangings were the chief subject of compl.t. The Society's lecture-theatre was hung round h specimens of paper-hangings, arsenical and non-arse 1, and these were so arranged as to prove that in most es the tint obtained from a poisonous paper might as we'be had from an innocent one. Mr. Carr states that arser is used quite unnecessarily in red, brown, blue, pink, F & grey, black, and other papers; that greens can be de without it, though in the opinion of some the arse al greens are a shade more brilliant than can be got with poison; that it is said to give permanence, body, ad brilliance to aniline colours; and that in low-class parts, and especially for export, its price being fractionally cher makes a consideration. The evidence of injury rest og from arsenical paper hangings was very large, and or us point Mr. Carr was supported in the discussion veh followed his paper by Mr. Jabez Hogg, Dr. Thudie M. Dr. A. S. Taylor, Dr. Lauder Brunton, and others. iscussion, in the strict sense of the term, however, there's none, for, in accordance with the system adopted b he Society of Arts, the supporters of the author of the "" surrounded the platform and monopolised the talk, the exclusion, as was protested, of some manufacturers ho tried to get a hearing, and to whom the meeting vild gladly have listened.

The general purpose of the author and his friends is 3^{eff} an Act of Parliament to prevent the introduction of a oil into the manufacture of wall-papers and other article in known to purchasers. It appears to us, and we submite suggestion to Mr. Carr and to the Committee of the M cal Society which is preparing a Bill on the subject, tha us

* "Our Domestic Poisions." See CHEMIST AND DRUGGIST, March 379, page 114.

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ne Act of Parliament would be quite superfluous. There arears to be no reason whatever why the provisions of the Plrmacy Act in reference to the sale of poisons should not beevelled against the retail sale of arseuical paper-hangin, if such a course is advisable. It would be difficult to dey that these are preparations of arsenic, and as such they wild be included under Part I. of the poison schedule. Any pe on selling them unless duly labelled, and signed for by the pushaser, according to the required formalities, is liable to a peulty of 51., which might be sued for by any onc. The Pirmaceutical Society, too, could prosecute any one not beg a registered chemist and druggist who might sell them mer any conditions. We imagine that a few prosecutions wild soon have the desired effect. Mr. Simon, who presi d at the meeting referred to, would be very well able to gi: an opinion as to the sufficiency or otherwise of the cose we have proposed.

PETROLEUM IN GERMANY.

Its reported that oil has been "struck" in Germany, in the nghbourhood of the city of Hanover. The oil is found in tl suburbs of Linden and Linmer, as far as the Hildesheim Hs to the south and the villages of Oilper Klein Scheppenstt to the east. The whole area comprises about 40 square mes, the centres being at Oberg and Oilsburgh, and the diricts due north and south of these two principal places. Hr Strippelman, a well-known mining engineer, gives it as h deliberate opinion that things in Hanover have reached a put exactly similar to what was the situation in America inediately anterior to the discovery of the Pennsylvanian wls. A like view is taken in a report by Herr von Ducken, a anover mining Councillor and Government engineer, who h just inspected the Oedessen Works. As might have been e ected, steps are being taken for forming a Petroleum Fing Company, to work the newly-discovered riches of Fover. The Pennsylvaniau rope-boring apparatus now eployed is capable of piercing from 30 to 40 feet per day, wereas with the old machinery hitherto in use no more tn 2 or 3 feet could be perforated. The present yield of t Hanoverian wells is at the rate of 10,000 cwt. per a um. Consumers, therefore, may be congratulated upon t svaluable addition to the available supplies of so cheap al useful an illuminator as petroleum oil.

ADULTERATION IN AMERICA.

TE success of analyses in England has naturally enough thtel American professors to do their best to whip the ple of the United States into the state of panic respecti adulterations such as this country enjoys at or about the rurrence of every maximum sun-spot period. The extrawant statements which have been published are indicated ia paper read by Professor A. R. Leeds before the New Irk Academy of Science, pointing out what adulterations a not current. No trace, he tells us, of strychnine, cocculus ilicus, or other poisons is to be found in beer. Vinegar es not contain sulphuric, nitric, or hydrochloric acid. Ikled cucumbers of the brightest green contain no copper. Very few samples of bread contain alum; cream of tartar i sometimes adulterated with 30 per cent. of terra alba; cined goods are free from hurtful compounds. The sensional statements, iniquitous though they are, have in herica, as in England, stirred up the sluggard, popular cnion, to take measures to protect the public from its own horance and the cupidity of its servants. Many months Dr. Squibb's fertile pen elaborated a scheme for proughly exterminating adulteraters and adulterated Eds. A more taking trap for public attention has been provided by Mr. F. B. Thurber, of New York, who has placed \$1,000 at the disposal of the National Board of Trade to be expended in premiums for the best act or acts, accompanied by an essay, designed to prevent injurious adulteration and regulate the sale of food without imposing unnecessary burdens upon commerce. The Board has unanimously resolved that the president be authorised to appoint a committee of experts, to be composed of five members—one of whom shall be a member of the medical profession, and one a chemist, one a member of the legal profession, and one a merchant; said committee to examine the acts or essays which may be submitted to them, and to award prizes therefor.

THE BORDEAUX LEECH TRADE.

An official account of the Bordeaux leech farms, by M. Sapin, member of the Limoges Society for the Protection of Animals, published in the *Courrier du Centre* of the Haute-Vienne for last April, is made the text for an essay on cruelty to horses by "Ouida" in the *Whitehall Review* of January 17:—

Certain speculators, we learn, "have made artificial swamps on the banks of the Garoune, and filled the swamps with leeches. To be profitable these leeches must multiply themselves by millions; to do this they must be liberally supplied with food; to thus supply them the Bordelais speculators bny up all the old and woru-out horses of the province, and drive or drag these horses into the swamps, which are subdivided by wooden compartments, so placed that when these unhappy animals have been forced into the mud there is no escape for them. The leeches fasten ou them instautly by thousands; the horse is in a few moments black with crawling creatures; the bloodsuckers fix themselves most of all on the open wounds and galls that these poor horses have incurred in their many years of service."

The frantic terror of the poor horses is described as, bleeding from all their most sensitive parts, they try vainly to shake off the leeches, but are at last sucked down into the noxious slime and seen no more. Nearly 20,000 horses —aged, infirm, weak from overwork, hunger, and fatigue are said to be sacrificed annually in this way at Bordeaux. "Onida" judges the agonies of the horses will not be a sufficient reason to check the barbarities of greedy speculators, but she hopes that an argument which may be heard is that leeches nourished on agonising and often diseased horses are very likely to convey ulcers, inflammations, and scrofulous maladies into the human system, and she states on the authority of doctors of emineuce that such diseases do frequently follow the application of leeches.

THE METRIC SYSTEM.

THE uatural human mind revolts against the metric or rather against the decimal, system. There is no getting over the fact that halves and quarters find their way easily to the uncultivated intellect, while the decimal point is only understood after a course of arithmetical training. In France, the home of the system, they sell cheese, butter, meat, fruit, and all such goods by the "half-kilo.," which is practically the standard weight in the retail trade. In America they speak of $12\frac{1}{2}$ c., and would never dream of writing %·125 to represent that amount. In all decimal systems the divisions invariably run in the old-fashioned grooves—halves, quarters, eighths, and so forth; and, as we have instanced, familiarity with the metric system does not diminish that tendency.

If we track this characteristic to its origin we come to the

conclusion that it is our decimal system of figures itself which is an error. It is hardly possible to conceive how immeasurably simplified calculations would have been if an octal instead of a decimal system had been provided for us by the wisdom of our ancestors. That an oetal system did once prevail is exceedingly probable. The Hindoo system of numerals, which we now employ, is declared by themselves to have been provided for them by divinity; but in Europe its general adoption can hardly be traced back further than about the date of the invention of printing. Up to the early part of the 16th century London merchants kept their accounts in Roman numerals. No doubt the Roman system was a decimal one; but it may be remarked that even in this the effect of halving is most probably visible in the use of the sign \bigvee to represent the half of X. The Greek and the Hebrew systems of enumeration, as we know them, may also be described as decimal, though there is clear proof that these had been modified from an earlier form by the introduction of extra letters to represent extra figures. It is not impossible that this may have been a change from an octal to a decimal system, and the theory is strengthened by the curious respect which has always been paid to the number 7 as the ultimate figure among Semitic nations. Leibnitz mentions a very remarkable diagram, which he says was communicated to him by a Jesuit of Pekin, and which is said to be a copy of a Chinese symbol called the Cova, or "lineation," which is said to be suspended in their temples, and is attributed to Fo.hi, the founder of the empire. This symbol represents a system of binary arithmetic from 1 to 7, and Leibnitz adds that there is a larger Cova which follows out the system up to 63. If true, this would be almost perfect proof of the existence of an oetal system of figures, as 63 would in such a system correspond with the 99 of the decimal method.

As our figures, however, are decimal, and it is too late to think about reforming them, it must be clear that a system of weights and measures corresponding to our figures offers the greatest facilities for calculations. This fact has been conclusively proved by the universal adoption of the metric system in all seientific work. In America an influential section of medical men are advocating the exclusive use of the system in prescriptions and in all medical literature. In view of this movement, and to aid it, the Druggists' Cir*cular* very sensibly urges weight-makers to prepare sets of aceurate metric weights, for trade purposes, to be sold at a moderate price. It is desirable that these should comprise not merely the minute weights for scientific purposes, but also the larger sizes, up to a kilogramme. It is greatly to be regretted that our intelligent legislation of the past few years precludes the possibility of any such experiment here. The Weights and Measures Act, as we have before pointed out, provides by section 21 that any contract or dealing expressed in weights or measures of the metric system shall be legal, but that Act provides no means of testing metric weights and measures for trade purposes, and section 29 threatens with severe penalties any person who shall have an untested weight or measure in his possessiou. If the metric system is to make any progress in this country it is essential that the necessary tools should be available; and it is consequently highly important that some addition should be made to the Act, which should legalise the use of such weights and measures, as well as the expression of them.



Literary Rotes.

The Doctors of the Dark Ages.*

THE first claim made on our attention by the School of Salerno is as the refuge of medical science and practice during the dark times when modern Europe had not ye cmerged from the ruins of the Roman Empire. This clain touches pharmacists at many points. One of the earlies attempts to ensure by examination the qualifications o physicians, and perhaps the first condemnation of private arrangements between drug-sellers and prescribers, wer, made at Salerno.

But beside all this, Robert, the son of William the Con queror, was wounded in the Crusades, and in A.D. 1101 h. stopped here on his homeward journey to secure the eare o the most skilful of physicians. The best and most impor tant work produced by the school, the "Regimen sanitati seu de conservanda valetudine liber," of which we know 207 editions and translations, commences with this verse:-

Anglorum regi scripsit tota schola Salerni,

rendering it at least probable that Robert instigated it composition. This book consists of 864 verses, and traverse much of the ground occupied in later days by "Homel Physicke Bookes," and now by "Family Physicians." W will quote four verses only, and leave it for the present :-

> Triste eor, ira frequens, mens raro gaudia volen«, Hæe tria consumunt corpora fine brevi. Si medici desint, medicamina sint tibi illa Hæc tria : mens læta, requies, moderata diæta.

THE DIPLOMA AT SALERNO.

Laws are still extant passed for regulating the practice c medicine by Frederic II., King of Naples and the Sicilie (1198-1250 A.D.). No man might profess the healing ar till he had studied seven years at (Salerno or at Naples), nc was he admitted to the study of medicine till three year had been devoted to logic. At the close of this long probe tion the ten professors of the school gathered in the gram cathedral, whose crypt held the relics of St. Matthew th Evangelist. The candidate, at least 21 years of age, wa called on to explain some passage in Galen, in Avicenna, c the aphorisms of Hippocrates. He swore never to spea against his alma mater, never to teach falsely, never to tak fees from the poor; to administer the Sacraments to hi sinking patients, to make no dishonest bargain wit druggists, to administer no abortive drug to pregnat women, nor poison to any human being. If it came to hi knowledge that any confection was fraudulently prepared he would denounce it to the court. He agreed to visit h patients twice each day, and, if requested, again at nigh For each day's visits in the camp or city he must deman no more than half a gold tarrenum. Beyond the cit walls he might receive four tarreui or three tarreni and h expenses. Satisfaction given on all these points, a hal opened book was handed to him with a diploma licensin him to practise medicine for reward "per universal terrarum orbem"; the Prior, the eldest of the professor placed a golden ring on his finger, a crown of laurel on h head, embraced him with a kiss, and gave him a paterna benediction.

HISTORICAL MATERIALS.

We have singularly complete accounts of the soci relations of the physicians of that age. Three independer relations have come down to us. In 1837 Professo Henschel discovered in the library of the College (Medicine at Breslau a fine MS., entitled "Compendiu

KILLED BY AN ELECTRIC SHOCK .--- At a theatre at Aston. on January 20, one of the orchestra, incautiously seizing two brass connections used in the production of the electric light, received a shock which made him inscusible, and forty minutes later he died from its effects.

Lindenbrogius-Codex legum antiquorum, lib. iii. cap. 34.

Lindenbroguns-Codex legum antiquorum, no. n. cap. or. * L'Ecole de Salerne et les Médecins du Moyen-age d'après le professe Von Ziemssen. Par le Dr. Alphonse Moeller. Louva'n : Ch. Peeters, 187 8vo, pp. 26. (Extrait de la Revue Catholique de Louva'n.) At the end the pamphlet we read "Extrait du Deutsches Archiv für Klin. Medicin."

Sale itanum," which contains 31 works, including most of thespreviously known, together with sone new ones. The illumated initial letters fix the date and locality of the MS. in Idy in the twelfth century, and display the cestumes of the ofessors and their pupils. One of the new treatises is entiad "De Adventu Medici ad Egrotum." Such an offici document would naturally, like the medical journals of tiday, advocate the highest ideal standard of professional ethi and morality. It shows us a flattering portrait. Prarch (1304-1374 A.D.), a poet, the successor of Dante,

Prarch (1304-1374 A.D.), a poet, the successor of Dante, seriesly studied the art of medicine in his youth. He live much in the courts of kings and popes, and mingled in t busy crowds of the Italian cities. Towards the close of h life he published four works, naïvely entitled " Contra median quemdam invectiva." Here we may expect to view the blackest side of the metropolitan medical profers in: to see their defects and vices magnified, their virus depreciated or ignored.

A the beginning of the tenth century, Rhazes, for many yea physician to an Eastern Caliph, wrote an essay on "The circustances of the art of healing, which tend to withdraw geral confidence from the best physicians and transfei it their inferiors." A Hebrew translation of this work wa liscovered in the royal library at Munich, by Steinschilder who made it the subject of an article in Virchow's "Ahiv für Path. Anatomie" (1866). The picture it gives wibe darkly coloured, though the point of view is very different from Petrarch's.

THE ETHICS OF SALERNO.

e first of these sketches shows us the physician questic ng the messenger who calls him to his patient, so that hean at once tell the sick man what part is affected, and ho the disease commenced; he insinuates his appreciation of he elegance of the dwelling and the amiability of its inhatants. He feels the pulse and examines the urine long ar carefully, tells the patient that with God's he'p he will cr him, but informs the parents as he leaves that it is a seous case. Thus the recovery of the patient increases his cilit, and the death will seem to have been foreseen from th first. The physician readily accepts an invitation to dner, but while at table he frequently inquires how the plent fares; he wishes not to know this, but to impress on a minds his unremitting attention to his charge. He sies a moment when improving health has brought good spits to press gently for his fee, and neglects not to talk of h skill and cures at favourable moments when the patient is urroundded by his friends.

PETRARCH.

etrarch paints the doctor in purple robes and golden cins. He knows neither rhetoric nor logic, but deafens t patient with syllogisms and arguments; when his colleues are present he gets heated and abuses them. After arolonged discussion he decides that barley-water is not gold for fevered patients, for the water is a substance and t fever is an accident! He commands his patient, on fil of his life, to neither eat, nor congh, nor spit, without Emission; yet invite him to your table, and he'll

Compound for sins he is inclined to,

Ly damning those he has no mind to,

f dishes to his taste will be praised for their virtues, and others will be condemned. His conversation has given to the proverb, "Mentiris ut medicus," "you fib like a hysician." He is prond as the hero of an ancient triumph; truth he is not to blame that he is not qualified for this nour by the 50,000 victims, though in olden days these ould be enemies, and his are follow-citizens hidden by the endly grave. No emperor, no sultan, can claim like the ysician, that even his mistakes are profitable.

RHAZES.

Rhazes, as the physician and councillor of princes, and rector of the great hospital at Bugdad, rightly conlered himself one of the first physicians of the day. His ork shows us how some doctors pandered to the prejudices the people, and the loss of repute suffered by conscienous men who disdained to stoop to this level. Immediately e physician has felt the pulse and seen the urine he is ex-

pected to know all that the patient has eaten or done, without asking a single question. By adroit and indirect questions certain doctors gain enough information to deceive the vulgar. Others even have men and women in their pay who question their patients waiting round the door, and reveal what they can learn to the servants; or they consult him for pretended diseases, and wonder greatly at the doctor's skill when he detects all their fictitious ailments in their urine; or, entering with the patients, they let the doctor know all he wants by signs and judicious remarks.

"When I began to practise," says Rhazes, "I determined to ask no questions when once I had seen the urine. Later, when I questioned the patient with care, my reputation rapidly decreased; I was told, 'We thought that you would know all that is in us as soon as you saw our urine.' It was in vain that I answered that such was not medicine, but quackery."

Dr Moeller's pamphlet, which has furnished most of the outlines of this very brief sketch, will serve as an excellent supplement.

It must be remembered that the Moslem Empire in the tenth century, and Italy in after times, were the seats of a vigorous and abounding civilisation, compared with which the rest of Europe was more degraded than are now the darkest parts of Russia. The schools were in far-distant lands, and we are not surprised to find princes and archbishops among the graduates at Salerno, and the chief citizens considering a connection with the university their highest obtainable honour. There is less difference between a pharmacy in Oxford Street, and a "store" in the backwoods, where Indians offer pelts for seidlitz powders, than between the physicians of Salerno and the wandering empirics and old wives who everywhere pretended to aid nature in the cure of all diseases. The worder is not that all was dark, but that there was any light.

[We have also received from Dr. Mceller the following works:---

Du Daltonisme où joint de rue théorique et pratique. Bruxelles, 1879, 8vo, pp. 146. (At page 143 is a bibliography of the subject containing 42 entries.)

Notes Médicales sur la Suède et la Nornège. Bruxelles, 1879, 8vo, pp. 23. (Notes on points of medical interest in various towns of Norway and Sweden.)

Du Massage. son action physiologique, sa raleur thérapeutique, δe . Bruxelles, 1877, 8vo, pp. 27. (Contains a short historical account of this mode of treatment.)]

Cooley's Cyclopædia of Practical Receipts. Sixth edition. Revised and partly re-written by Richard V. Tuson, F.I.C., F.C.S. London: Churchills.

THE sixth edition of Cooley's "Cyclopædia," the publication of which has been lately completed, demands more notice than new editions usually receive. A book which has for 40 years occupied the highest place in English literature as the standard work of reference for medical, pharmaceutical, and general formulæ deserves the most respectful treatment on that account alone; but on this occasion the publishers and editor have ignored their previous position, and have set to work to compete with their former efforts, with such results as to leave pursuit hopeless in the particular field of literature which this work occupies. The present edition contains 1,796 pages; its predecessor contained 1,200, and the second edition, which is the earliest we are able to refer to, 808 of a smaller size. It is obvious, therefore, that the plan of the work has been very extensively developed since it first came before the public. The last edition has been published in 16 half-crown parts, and forms two fine volumes.

It would be difficult to give an idea of the variety of information given in this work. On most subjects likely to turn up in the day's work, especially in the day's work of the pharmacist, some assistance is likely to be found in Cooley. It would be difficult to name any substance in a druggist's shop not treated of, with formula for it if it is a compound. Domestic information, from how to light a fire, and how to make mince pies, to other more important matters, are also included. Medical subjects are treated **4** with some fulness, more especially in this edition. Scientific compounds and inventions are failly explained, though there is no attempt to write a manual of chemistry. A good deal of new matter of this kind appears in this edition. Legal information is given occasionally, but there seems to have been no systematic intention to include this. For instance, the Public Health Act is given in sections under various headings, and possibly the whole of it is contained somewhere within the two volumes, but mere mention of the Sule of Food and Drugs Act is all we can discover.

Formulæ from all sources have been collected, and of course these are of all characters, good, had, and indifferent. On some subjects, however, some judicious remarks respecting the manufacture are added. The subjects are arranged alphabetically, and perhaps an index is hardly required. One was promised by the author in his carlier editions, but this promise has been omitted from later issues. Of course errors are to be found by searching. We have noticed, for instance, several names wrongly spelled. Mr. Kingzett is Italianised on page 752 into "Kingzetti." A book published by Mr. Stanford is several times quoted. Besides giving the title variously the unfortunate publisher himself is very badly treated. Ou page 1490 he appears as "Stamford," on page 1581 as "Glanford," on page 1675 he turns up as "Sandford." On page 1588 " l'areira" and "Atfield " appear in company. Other misprints might be named, but we do not think they are numerous, or in any ease important. A eurious error occurs on page 1415, where is given Sydney Smith's well-known poetical recipe for salad dressing. The editor adds to this in a foot-note—" The poet has inadvertently ignored the oil and vinegar." It happens, however, that the omission is that of the editor, not of the poet : at least in other old books where the rhyme occurs we tind the lines:—

Four times the spoon with oil of Lucea crown, And twice with vinegar procured from town.

We had marked also a few passages where it would have been better to have corrected the information by later materials, but it is hardly worth while to indulge in such minute criticism. Our general opinion of the book is that it is a most valuable store of information, especially suited for the chemist and druggist.

A Note-book of Solubilities. Arranged chiefly for the Use of Prescribers and Dispensers. By John Eagle, M.P.S. London: H. K. Lewis, 2s. 6d.

It was with a feeling of satisfaction that we opened this little treatise, having frequently recognised the want which it is intended to supply. Such a treatise, however, to be of use to "medical men and pharmaceutists" must be both practical and correct, practical in so far as the conclusions arrived at are drawn from observation on substances as met with commercially and not as found in the laboratory, and correct in so far as they are the result of careful personal experiment. We do not know whether it is a want of attention to this very proper rule or whether the author has simply accepted the conclusions of other investigators, irrespective of other considerations, such as temperature, &c., but we confess to a strong feeling of disappointment on finding that the results tabulated did not in many cases square with our own observations. We have suggested temperature because we frequently find investigators noting their experiments at different temperatures, and the author has apparently accepted their conclusions with the most loose regard to correctness or harmony of detail. We find, for example, on one page alone ---

> 1 in 778 water at 60° Fabr. 1 in 6 water. 1 in 3 cold water.

One part slowly dissolves in 50 parts of water at the *ordinary temperature*—60° Fahr.—we know, but what is meant by "water," "cold water" or the "ordinary temperature" we have no means of determining. No more do we know the meaning of rectified spirit in comparison with *hot* alcohol, "hot rectified spirit" and "cold rectified spirit" occurring on another page. These must be considered small details, however, when we look over the solubilities themselves. Taking a few of the better-known salts at random, we find sulphate

of magnesia, for example, is given as soluble in $1\frac{1}{2}$ part c cold water. We thought the merest tyro would have know that water would take up at 60° Fahr. its own weight c this salt. Rochelle salts (soda tartarata) is given as solubl in $2\frac{1}{2}$, but this is exactly one half in excess of wate Acetate of potass is given as soluble in 1, whereas we hav frequently seen prescriptions ordering 2 parts of this salt t 1 of water, and no difficulty was found in dispensing such Bromide of potass is given as soluble 1 in 2, but we find is soluble 1.6. Alum is given as soluble 1 in 18, but we find n difficulty in getting a solution 1 in 12. Borax, on the othe hand, is given as 1 in 15, but we have never been able to ge a solution of the crystal stronger than 1 in 20 to 2 Camphor is given as soluble 1 in 14 part rectified spirit, an 2 in 1 of ehloroform, but we find it soluble 1 in 1 of spiri and 3 in 1 of ehloroform. Sulphate of bebeerine is give as 1 in 80, but this, we think, must be a misprint for 1 in t

Many other examples might be given, but we think we have sufficiently indicated the value of this "Note-book" temedical men and pharmaceutists.

Medical Chemistry, including the Outlines of Organic an Physiological Chemistry; based in part upon "Riche Manual (sic) de Chimie." By C. Gilbert Wheeler Second and revised edition. Philadelphia: Lindsay Blakiston; Chicago: S. J. Wheeler. 1879. Svo, pp. 42: index (13 pp.).

"MEDICAL ehemistry," says the author, "has not as ye secured in American colleges sufficiently-pronounced atter tion to create a demand for text-books of considerable siz or extended scope," so he has compiled a text-book fo students, which he doubtless considers just sufficiently com plete, and hopes to see introduced into the American eollege by his friends the professors. The kindly feeling existing among teachers of science in America seems admirably intense, if we may judge from the frequent complimentar, notices of the researches of 2rof. —, of Detroit; Prof. of Pittsburg; and other gentlemen equally well known o that side of the Atlantic. The vulgar saying, "Scrateh m back and I'll scratch yours," seems to describe this feelin exactly.

The following is a remarkable but not unique specime 0 the author's accuracy in matters bordering on pharma cology: --

Salt of sorrel is extracted from burdock(Prun w) in Switzerlund, (!) .. Page 112.

We do not think that either its style or matter will make this book a classic.

Nitro-glycerine in Pharmacy. By William Martindalc Ph.C., F.C.S. London. 1880. [A reprint, paged 35-3: no title-page.]

THE most interesting point in this pamphlet is the aunounce ment of the discovery of the solubility of niro-glycerine is oils and fats. While beating about for some convenien excipient for small doses of niro-glycerine a drop of niroglycerine was let fall into some almond oil as an experiment it immediately dissolved. Caeao butter was tried with simila results, and, as this new property seemed likely to be service able in the preparation of explosives, provisional protection was secured, but the patent has not been completed. Only 15 parts can be dissolved in 100 parts of olive oil, and, while blows will not explode this solution, dynamite containing 75 per cent. of nitro-glycerine is much more portable; and Prof. Abel states that the practical objections to the use c liquid explosive agents led to the production of the solid preparations of nitro-glycerine which are now used.

As the ordinary dose of nitro-glycerine is a hundredth o a grain, its solution in cacao butter answers perfectly fo medicinal purposes. This can be made into pills with sugar and varnished; but, as it is generally required to act in stantly, it is found better to make it into lozenges with chocolate paste. These are palatable, portable, and stable and, indeed, have already been noticed in our pages.

THE publication of Bentley and Trimen's "Medicinal Plants is now completed. It comprises in all 42 5s, parts, and over 300 plates. We shall notice the work more fully nex month.

MESSRS, CASSELL & Co. have sent us Part I. of the Family Physician," but a single brick of such an edifice bes not enable us to judge of the architecture, and we shall, herefore, only say that it does not err in over-conciseness.

WE have received the very useful Calendar of the Pharnaceutical Society, published at 17 Bloomsbury Square, to hich we would advise all inquirers concerning the business f that society to refer.

THE Druggists' Circular, of New York, and New Remedies, of the same city, have both reprinted the greater part of the 'Treatise on Dispensing'' which appeared in the last UHEMISTS' AND DRUGGISTS' Diary.

LETTS' POPULAR ATLAS.—A very remarkable work has been commenced by Messrs. Letts, Son & Co. (Limited) under the above well-chosen title. Three maps are contained in each monthly part, the part being sold for 7d. Twelve parts will give a very comprehensive atlas, though it appears that some supplementary parts will afterwards be published. The maps are 17 inches by 14 inches, excellently engraved on steel, distinctly but lightly coloured, and presenting several novel features, such as indications of telegraph lines, depths of ocean, &c. Prizes for students are also offered in connection with this publication.

THE CHEMISTS' AND DRUGGISTS' DIARY FOR 1880.— The reappearance of this handy appendange to the pharmacist's desk is always welcome even on this side the Atlantie, for although much of the matter in the text is of a nature which chiefly concerns British readers, there are also many things of more general interest. Among the latter we may mention the "Treatise on the Art of Dispensing," which this edition contains, and which nearly covers 13 pages. It alone is worth the cost of the Diary to subscribers. Another feature of interest is the map of London, on which is indicated the location of many of the dealers in drugs and other goods in which the trade is interested.—"New Remedies," January, 1880, p. 25.

Clippings and Pickings.

CHARGING FOR THE "KNOW-HOW."—A coloured servant of a medical man in the South (*Pacific Med. and Surg. Journal*) to whom a patient, who had an important surgical operation performed, complained that his master had made a very steep charge of §25 for half an hour's work, when §5 would have been sufficient, replied, "He only charge you five dollars for de operation, de oder twenty was for de know-how."—Louisville Med. News, January 3.

MEDICAL LEGISLATION.—In the Honse of Lords on the 6th inst., the Marquis of Ripon asked the Lord President of the Council whether he could state what were the intentions with reference to medical education. The Duke of Richmond replied that the Bill on the subject which passed through their lordships' House last Session was sent down to the other House, where it was referred to a Select Committee. The same Bill would be introduced in the House of Commons and referred to the same Committee, in the hope of legislation this Session.

ARTIFICIAL WINES: PROTECTION IN TRADE !—Among the curiosities of protection is certainly the petition of the Rio manufacturers of false wines—a petition endorsed by several Brazilian merchants of high standing and entirely unconnected with the trade—remonstrating against the reduction of the import duty on common wines, and founding that remonstrance on the plea of protection to native industry, which, it is boasted, already turns out 4,000 pipes a year of false wines manufactured wholly of native rum, sugar, and logwood, and guiltless of any foreign admixture of the juice of the grape under whose name it is palmed on the public.—Anglo-Brazilian Times.

BARK AND BITE.—Mr. Smelfungus writes to *Punch* to suggest that as quinine is the known specific for ague, and as sufferers in the cold fits of the shakes are Chilly uns *par excellence*, no doubt the Chilians owe their recovery from their cold fits to having taken the Peruvian bark, not, however, under its usual name of *Chinehona*—but *Huascar*.

ANOTHER DIAMOND-MAKER.—Addressing the Philosophical Society of Sheffield on February 3, on the subject of the manufacture of precious stones, Mr. A. H. Allen, borough analyst, said that Dr. R. S. Marsden, a native of Sheffield, had recently been trying experiments in connection with the production of crystallised substances, and had succeeded in obtaining the crystalline form of a body which Mr. Allen thought might possibly be diamond. This result was obtained by an entirely new process, and there was every probability that the body thus procured was crystallised carbon.

CURE FOR EPILEFSY.—Madame Bismarck, it appears, has discovered a cure for epilepsy. The following is translated literally from the *Berliner Birger Zeitung*, and appears as the circular of the president of a medical society of that eity:—"January 12, 1880.—Her Highness the Princess de Bismarck wishes to receive before the 18th of this month as many magpies as possible, with the object of reducing them to ashes in order to obtain a powder against epilepsy. I beg you, therefore, to kill in your district as many pies as possible, and to send them, carriage unpaid, to the chief forester at Friedrichs or to my address."—J. L. L.

WHO GETS MOST SUNSHINE ?—An American journal not long since declared that the United States had as much right as Great Britain to boast that the sun never set on its empire. But the *Scientific American* replies that geography is inexorable, and national vainglory must bow to its decrees. The United States from end to end is in the dark four hours in twenty-four. The writer, however, brightens up when he reflects that the sun really does shine on the United States when he pretends to. Americans must submit to four hours of sunlessness a day; England is lucky to get four hours of sunshine.

ETHER AS A DETECTOR OF FAULTY DRAINAGE.—Under this heading a letter appeared in the *Times* of January 21 from Lieut.-Col. Lonsdale Hale, suggesting that ether at 4s. a pint should be poured down suspected drains, so that its characteristic vapour might reveal defective places by its escape into the outer air. On January 23 Mr. G. W. Wigner pointed out in the same journal that there would be great danger of exploding the ether vapour, that the ether would probably injure any red-lead joints in the drains, and that the density of its vapour would cause it to fall from the top of the ventilator into the atmosphere, and so delude the observer.

How DOCTORS THEIVE.—Excited and anxious patient: "Doctor, I do wish you'd tell me what's the matter with me; I'm elear out of sorts this morning, and I'm afraid I'm to be down sick. What's the unatter with me?" Doctor (gravely): "Let me see your tongue." Patient thrusts it out. "What's the uster with me?" Doctor (gravely): "Use the see your tongue." Patient (reflectively): "Well, I was out late last night, had a bit of supper at midnight, oysters, raw and stewed, lobster salad, cold tougue, pressed chicken, curds and cream, coffee, some fruit cake, a little cheese, and a handful of hickory nuts." Doctor (doubtfully): "Let me see your tongue again." Looks at it thoughtfully, then in authoritative tones: "Ah, yes, I see; you've been eating something that doesn't agree with you." Grateful patient gives him §1.—Detroit Free Press.

MEDICINE IN THE TRANSVAAL.—A physician who was induced to leave a comfortable practice in England for the richer prospects of the Transvaal has published some letters in the *Transvaal Argus* lamenting his rashness. Before finally settling he travelled through the country, with disgust and regret increasing at each stage. "Not a district," he says, "not a town, not a hamlet is there in the Transvaal which has not its self-diplomacd doctor." He hardly knew whether he was most astounded at the consummate ignorance of these charlatans, at their extortionate charges, or at the enormous influence they possess over the minds of the Dutch residents of all classes. The missionaries are nearly all curers of bodies as well as of souls, but he considers a missionary all the more valuable for a little medical and surgical knowledge. There is a law in the colony which provides for the punishment of charlatans, but it is seldom enforced. The whole medical field is not only occupied by quacks, but the rascals are popular and rich.

COD-LIVER OIL SUBSTITUTE .- Dr. T. A. Emmet has recommended in the British Medical Journal pork fat as a substitute for cod-liver oil. A thick portion of a rib piece, free from lean, is selected and allowed to soak in water for 36 hours before being boiled, the water being frequently changed to get rid of the salt. It should be boiled slowly and thoroughly cooked, and, while boiling, the water must Le changed several times by pouring it off, and fresh water, nearly boiling, substituted. It is to be caten cold, in the form of a sandwich made from stale bread, and both should be cut as thin as possible. It is very nutritious, but it should only be given in small quantitics until a taste for it has been acquired. It is frequently retained when the stomach is so irritable that other things are rejected. For this condition of the stomach it may be rubbed up thoroughly in a porcelain mortar, and then given in minute quantities at a time. It is made more palatable by the addition of a little table salt, and this is well tolerated, while the salt used for preserving the meat produces disturbance even in a healthy stomach.

THE GOVERNMENT AND THE TELEPHONE.—It has been anounced that the postal telegraph authorities do not intend to interfere in any way with private firms in the erection and use of telephonic lines, whether worked by magnetism or electricity, provided such wire-communication be not intended to form part of "telephonic exchanges."

CIILORAL.

(In Two Lights-the Blue and the True.)

CHLORAL! of blue-blood the bluest, Alcohol's and Chlorine's daughter, Youth and beauty that renewest, Nigbt's long watebes making shorter. Blithely raise a pean choral Round thy fount of blessings, Chloral!

Tostil thy rotate of bitssings, children i Tostil thy rotate of bitssings, children i Sigh no more for daylight's peeping; Sweet and soft falls thy nepenthc, In its calm worn spirits steeping. Truly "Amor rincit omnia,"

Chloral's love can cure Insomnia t

(P.T.0.)

Chloral! spawn of depths abysmal, Spring of restlessness and raving, Fancies sick and visions dismal— Source of still insatiate craving. When the once-blest light auroral Breaks thy feverish spell, O Chloral,

Comes Reaction's Nemesis, And the soul in Tophet sinking, Woos again thy fatal kiss—

Woos, and ends in endless drinking, Till to the unplumbed abysm

Sink thy victims, Chloralism !- Punch. THE ILIGHER MORALITY. - Nature quotes the following translation of a Chinese placard from the Foochow Herald -"Strictly refrain from eating cow's milk! Men should not rob the beasts of their food. Moreover, of all beasts the cow is the most useful and meritorious. Men who do not discriminate between mankind and beasts are worse than senseless. Those who sell milk darken their consciences for gain, and those who eat cow's milk foolishly think they are bencfiting their bodies. Men who take medicine should first earefully investigate and find out its nature. Why do not those who eat cow's milk consider and inquire into its origin? For instance, men beget children, and while the children are small they depend upon the milk for their nourishment: so it is also with beasts. But when men buy milk to eat, do they not do injury to the life of the calf? And is there not bitter hatred and distress in the minds of both eow and calf? Beasts cannot speak: how, then, are they able to tell the man that, in eating the milk of beasts, his body becomes like that of birds and beasts? But if men

wish to take strengthening medicine there are numberles other articles in the world that are beneficial. What neces sity, then, is there for taking cow's milk? Besides this, th death and life of men have their fixed number and limit, and this cow's milk cannot lengthen out and continue the life o man. Since, then, all know the truth, that it cannot do this all ought to act with loving and benevolent spirit : especially all who receive this exhortation should keep from eating milk. The children of those who cause their families to refrain from eating milk will be preserved to grow up: they also will thus lengthen out their own lives, and will escape from evil in time of fatal epidemics. If such persons be able also to exhort others, who are ignorant of the first principles, to leave off the eating of milk, their descendants shall surely prosper. Published by the Hall of Good Exhorta-The xylographic blocks are deposited in the Ung tions. Ling Kóh."

Chemistry.

ENGLISH AND FOREIGN CHEMICALS.

It is very much to be desired that the utmost care should be taken to ensure the reliability of all chemical products entering into commerce, whether of English or of foreign origin; but it is not necessary that for this end high prices and ancient processes should hold their ground merely out of prejudice against more cconomical methods of production. The best way to get at the truth is to encourage dis-cussion among experts. An instance of the partial way in which this encouragement is given in some English journalshas lately come under our notice. In October last the British Journal of Photography published a letter from "Samuel Fry," Kingston-on-Thames, stating that his experiments had led him to the conclusion that German pyrogallic acid was likely to cause failures in the intensification of the image, that is, was deficient in its power to reduce "Silver salts. He therefore recommended the general use of "English pyro. It is cheaper in the end." This statement was re-published in an almanack issued by the proprietors of the journal referred to, but we have been informed that the editor has declined to give any account of some experiments which have been reported by Dr. H. W. Vogel, of Berlin, which tend to an opposite conclusion.* Now as German pyrogallic acid is sold at just about onc-half the price of that of English make, the question is one of some eommercial importance, and perhaps Professor Vogel's report, which is now before us, may be of interest. He states that he experimented with a sample of pyrogallic acid from the manufactory of Hopkin & Williams, London, and with another made by E. Schering, of Berlin. Hc tested in each ease the power of reduction of bromide of silver possessed by each. First, he remarks that bromide of silver can only be reduced by pyrogallic acid in the presence of alkalies, and that the intensity of the reduction increases with the quantity of the alkali, the concentration of the solution, and the influence of light and air, the latter in the presence of alkalies tending to oxidise pyrogallic acid. It is therefore necessary to carefully observe exactly similar conditions in each experiment for the purpose of comparison.

He took two yellow glass bottles, each of 200 c.c. capacity. Into each he put 8:5 c.c. of solution of nitrate of silver, containing 1:2 gramme. To this, in each case, 6 c.c. of bromide of ammonia solution were added. The bromide was slightly in excess of the quantity nccessary to precipitate all the silver. Then to each liquor 2 c.c. of ammonia were added, and exactly at the same time to one a solution of 1 gramme of Schering's acid, and to the other a solution of 1 gramme of the English acid, in each case dissolved in 10 c.c. of aleohol, were added. The bottles were equally shaken for 10 minutes, and the contents were poured into vessels containing sufficient sulphuric acid to saturate the ammoniar and check the reducing action. Vogel says that he obtained with the English acid '896 gramme of silver, with the German acid '937 gramme.

• Since this was written Dr. Vogel's report has been published in the British Journal of Photography.

Of course these results may be disputed, but Vogel is a good authority. We should like to learn whether English makers of pyrogallic acid have any demand from foreign competitors for the product which they charge so dearly for here.

Obituary.

APPLEYARD.—On January 26, Mr. Richard Appleyard, chemist and druggist, of 50 Park Lane and 4 Sherborne koad, Bradford. Aged 47 years.

BOOR.—On January 30, after several years' severe suffering, Sarah Ann, wife of Mr. G. C. Boor, Leonard House, Green Lanes, N., and St. Botolph, Bishopsgate, City. Aged 49 years.

DEANE.—On February 2, at Clapham, Jemima, widow of the late Henry Deane, of Clapham Common, in her 73rd year.

EVANS.—On January 6, Mr. Edward James Evans, chemist and druggist, Llanybyther, Carmarthenshire. Aged 36 years.

HUGGINS.—On December 15, 1879, Mr. Henry Huggins, chemist and druggist, Stansted. Aged 40 years.

HUGHES.—On January 7, at his residence, Rose Hill, Derby, Mr. Arthur Elijah Hughes, chemist and druggist. Aged 32 years.

JACKSON.—On February 5, at his residence, 147 Kensington, Liverpool, in his 65th year, Robert Raimes Jackson. Mr. E. R. Jackson was nephew of J. & R. Raimes, wholesale druggists, Edinburgh, and travelled for them for a number of years in the North of England, Lancashire, &c., and about 1852 opened the Liverpool house of Raimes & Co. and became managing partner, a position he occupied until his retirement from business in 1871.

JENNINGS.—On January 3, Mr. John Hartley Jennings, chemist and druggist, Burley Lawn, Leeds. Aged 52 years.

LIMON.—On January 10, Mr. Henry Limon, pharmaceutical chemist, Burgh-le-Marsh, Lincolnshire. Aged 48 years.

RANDALL.—On January 30, at Eastbourne, Eliza Anne Randall, eldest daughter of the late Edward Mayor Randall, Esq., of Southampton.

TENNANT.—On December 15, 1879, Mr. James Tennant, chemist and druggist, John Street, Pentonville, N. Aged 69 years.

Trade Notes.

THE BUSINESS of the late Mr. A. F. Robinson, of 5 Northgate, Darlington, bas been purchased by bis brother, Mr. J. Robinson, Mr. Scruton valued for the latter, and Mr. F. J. Brett for the vendor.

*

MESSRS. BRADBURY & Co. (Limited), of Birkenhead, inform us that they have a most effective remedy for the *Distoma hepaticum*, or Liver Rotin sheep, for which they are offering agencies.

MESSRS. BOURNE & TAYLOR are selling large numbers of a useful shilling thermometer, half-a-dozen mounted on a card. The readings are very distinct, being white on black. The range of the thermometer is from -40° to $+120^{\circ}$ Fabr.

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MESSRS. DOMEIER & CO., of Botolph Lane, have been appointed agents for the sale of the products of Messrs. C. F. Böbringer & Sons, of Mannbeim, Germany, whose quinine, cinchonine, santoninc, &c., are advertised in our pages. MESSRS. JEFFREY & SON, of Cheltenham, bave introduced hydrobromic acid jujubes, at the suggestion of a Cheltenham physician, and these form a very pleasant method for administering that remedy in throat affections.

OUR ADVERTISEMENTS contain two announcements of the sale of chemists' businesses by auction. One sale is to take place at Huntingdon on the 20th inst., the other is a business at Brixton Hill, which will be sold at the City Mart on the 24th inst.

WE NOTICE that Mr. Hickisson now sends out his 1s. pedestal cases of marking-inks (the daughter of the late John Bond's) in quarter-dozen cardboard cases, in which cach is kept separate. This is a great improvement over the old method of packing in brown paper only.

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MR. P. A. STEVENS, for 20 years resident at Hyde Road, Hoxton, has transferred bis business as chemist and druggist to Mr. R. J. Spencely. Mr. Stevens will continue to carry on his manufacture of silvery white guttapercha enamel as before.

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MR. C. A. GOSNELL left London on January 15 on a business tour of the world, to occupy 25 months. He represents Messrs. John Gosnell & Co., Allen & Hanburys, Alfred Bisbop, S. M. Burroughs & Co., the Kepler Malt Extraet Company, T. & H. Smith & Co., and Wyeth Brothers. Mr. Gosnell's route will include the chief cities of India, China, Japan, Australia, New Zealand, the United States, and Canada.

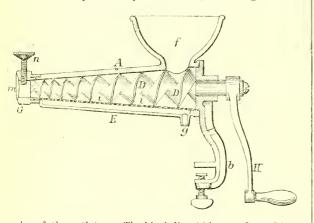
* *

A COMPANY has been formed under the title of the New Zealand Drug Company (Limited), to acquire and carry on the business of Kempthorne, Prosser & Co., which has been established for many years at Dunedin, Christchurch, Auckland, and Wellington. The capital is 200,0007. in 27. shares. The business is sold at actual cost to original partners who hold 25,000 shares fully paid up. The accountant's statement shows 15 per cent. net profits on cost value of sales for the last four years, and 23 per cent. average net profits on average capital during the same period.

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WE HAVE TESTED, with most satisfactory results, the new preparations of extract of meat which have lately been introduced by Messrs. Nelson, Dale & Co. These present extract of beef combined with gelatine dried and cut into shreds similar to the gelatine which has been so long the specialty of the firm. The beef-tea made from it is of a very agreeable flavour, and is readily prepared. Extractum carnis and gelatine are also offered in other combinations for making various soups, and a soup with a good body and excellent flavour is quickly prepared from them.

WE NOTE with pleasure that the well-known druggists' sundries business, known as "Bourne & Taylor's," which was established in 1847 by the late Daniel Bourne and John Taylor, has lately been transferred to Messrs. Edward Johnson and Thomas James Latimer. Mr. Johnson has been associated with the firm for 25 years, and has had the entire management of it for the past 12 years, while Mr. Latimer has represented the firm for the past seven years all over the country. These gentlemen have largely developed the business in recent years, and their energy is not likely to relax now. Mrs. Bourne still retains a share in the concern, and the style of the firm will still remain Bourne & Taylor.



size of the outlet m. The black line *i i* is a perforated brass plate, which can be had with perforations of different sizes. The expressed liquid escapes through this into the channel E, and is delivered at the spout q. The marc cannot clog the holes in the plate i, as the edge of the screw shears off what projects, and the rest is forced through. This press answers particularly well for hops, arnica flowers, opium, and other bulky residues, but it is not suited for sticky, tenacious, and very finely-powdered drugs.



(The following list has been compiled expressly for THE CHEMIST AND DRUGGIST by G. F. Redfern, Patent Agent, successor to L. de Fontainemoreau & Co., 4 South Street, Finsbury, London; and at Paris and Brussels.]

Applications for Letters Patent :--

- Bottle-stopper .- No. 5264.- N. Fritzner, of Berlin, Germany, merchant and manufacturer. Improved stopper for bottling efferveseent liquids. Dated December 24, 1879.
- Charcoal and Phosphates .- No. 5286 .- H. Lissagaray, of 11 Bessborough Gardens, Pimlico, London. Improvements in the treating of fish aud fish residues for extraction of oil, and converting the residues into charcoal and phosphates and ammoniacal substances. Dated December 27, 1879.
- Cork-extractors .- No. 5246 .- J. G. Wilson .- A communication from B. Winkler, of Maskau, Germany. Improvements in corkscrews or cork-extractors. Dated December 23, 1879.
- Dental-plates .- No. 5117. J. H. Gartrell, of Penzance, Cornwall. Improvements in apparatus for moulding articles of celluloid, indiarubber, and similar materials, chiefly designed for the maunfacture of dental-plates. Dated December 13, 1879.
- Drop-bottles.-No. 5104.-A. M. Clark.-A communication from Raonl, Bravais & Co., of Paris. Improvements in or applicable to dropbottles for measuring out medicinal and other liquids. Dated December 13, 1879.
- Filter .- No. 38 .- S. H. Johnson, F.C.S., of Stratford, Essex. Improvements in filter-presses Dated January 5, 1880.

- Galvanic Batteries .- No. 5219 .- T. Coad, of North Brixton, London electrician. Improvements in galvanic batteries. Dated Decem ber 20, 1879.
- Magnetic Curative Appliances .- No. 5.- F. Bapty, of 31 Parl Square, Leeds, medical electrician. Improvements in magneti curative appliances. Dated January 1, 1880.
- Medicinal Bitters .- No. 5178 .- H. Davis, of Liverpool. An improve bitters to be used as a medicinal or other Leverage. Date December 17, 1879.
- Soda and Potash .- No. 5228 .- H. Brauner, of Widnes, Lancashire alkali manufacturer. Improvements in the manufacture of sode and potash. Dated December 22, 1879.
- Sulphite of Lime .- No. 5109 .- R. Powell, of Liverpool. Improve ments in the manufacture of sulphite of lime. Dated Decem ber 13, 1879.
- Sulphates of Soda and Potash .- No. 5105 .- C. Wigg, of Liverpool manufacturer. Improvements in the manufacture of sulphates of sola and potassia. Dated December 13, 1879.

Letters Patent have been issued for the following :-

- Ammonia.-No. 4338.-G. N. Tucker.-A communication from N. Basset, chemist, Paris. Improvements in the manufacture 'oi ammonia and its salts, and in the apparatus employed for this manufacture. Dated October 24,,1879.
- Artificial Teeth .- No. 2771 .- G. W. Von Nawrocki .- A communication from R. Telschow, of Berlin, Germany. Improvements in the manufacture of artificial teeth, and in apparatus therefor. Dated July 7, 1879.
- Bottles .- No. 2753 .- A. Deleour and J. B. Admant, both of Paris. Improvements in bottles for decorative, advertising, and trade mark illustrating. Dated July 7, 1879.
- Bottles and Stoppers .- No. 3935 .- H. Barrett, of Hampton. Improvements in bottles and stoppers, and in apparatus for filling or charging the same. Dated September 30, 1879.
- Bottle-stoppers .- No. 1861 .- H. Barrett, of Hampton, Middlesex. Improvements in stoppering bottles for containing aerated or gaseons liquids, and tools or appliances therefor. Dated May 10, 1879.
- Caustic Alkalies .- No. 3:03 .- G. I. J. Wells, of Widnes, Lancashire, alkali manufacturer. Improvements in the manufacture of canstic alkalies and in apparatus therefor. Dated September 22, 1879.
- Filters .- No. 2218 .- H. Harris, of Hackney, Londou. Improvements in filters. Dated June 4, 1879.
- Galvanic Batteries .- No. 4346 .- R. C. Anderson, of Wood Green, civil engincer. Improvements in galvanic batteries. Dated October 24 1879.
- Galvanic Battery .- No. 2905 .- Mr. C. H. Carlson, of Lee, Kent. Au improved galvanic battery. Dated July 16, 1879.
- Hydrocarbons .- No. 2860.-S. Pitt; a communication from Dr. P. Greiff, of Munich, Germany. Improvements in the production of hydrocarbous, such as benzole, toluole, scylole, napthaline, anthraciue, and their homologous substances which are suitable for the manufacture of colours. Dated July 14, 1879.
- Sulphur .-- No. 3194 .-- W. Weldon ; a communication from A. R. Pecbiney, of Salindres, France. Improvements in obtaining sulphur from a bye-product of the manufacture of alkali. Dated August 8, 1879.
- Sulpho-acids of Rosanilinc .- No. 2823.-C. D. Abel; a communicatiou from E. Jacobsen, of Berlin, Germany. Improvements in the production of the sulpho-acids of rosaniline and of the colouring matters derived therefrom, as also of alizarine and purpurine. Dated July 11, 1879.
- Sulphate of Soda and Potassa.-No. 2809.-J. Hargreaves, of Widnes, Lancashire, chemist. Improvements in apparatus or appliances for the manufacture of sulphate of soda and potassa. Dated July 10, 1879.
- Volatilising Cresylic Acid .- No. 2645 .- J. H. Valentinc, of Providence, R.I., United States. Improvements in the method and apparatus for volatilising cresylic acid. Dated June 30, 1879.

Specifications published during the month :---

Postage 1d. cach extra.

1879.

- 1481. W. Müller and E. Geiseuberger. Mauufacture of ammonia. 6d.
- 1521. G. H. Jones. Lathes for dental and other uses. 6d. 1788. C. F. Wood. Constructing, stoppering, and filling bottles and jars.
- 8d.
- 1818. L. Vallet. Stoppers and bottles. 6d.
- 1863. T. Fardon. Manufacture and drawiug-off of aëratel liquids. 6d.
- 1864, R. Meldola. Colouring matters. 4d. 1865. H. Parkes. Manufacture of compounds of nitro-cellulose. 4d.
- 1869. A. & J. D. Scott and T. R. Ogilvie. Purifying saecharine substances.
- 4d. 1875. H. Schildberg. Apparatus for sprinkling scents, disinfectants, &c.
- 1888. H. Codd. Elastic rings for jars and bottles. 2d.

- 1895. H. Barrett and J. Bailey. Stoppers for bottles. 4 l.
- 1917. W. P. Thompson. Holders for deutal and other small tools. *id.* 1960. S. Canning. Manufacture of glass bottles, &c. 6d.
- 1966. W. Battersby. Stoppering bottles. 6d.
- 1970. J. Fordred. Treatment and purification of cod-liver oil. 4d.
- 1991. T. Wood. Bottles and stoppers. 6d.
- 2006. J. B. Spence. Treatment of metallie sulphides. 4d.
- 2101. W. P. Thompson. Manufacture of aluminium, so lium, & 2. 2d. 2169. M. Lumb. Bottles. 2d.
- 2204. J. Pattinson. Manufacture of soluble phosphates. 2d.
- 2241. J. Wilkinson. Apparatus for shaping the mouths of bottles, jars, &e. 6d.



LIQUIDATIONS.

BLORE, HENRY LESSEY, 1 Withy Grove, Manchester, groeer, and 46 Oldham Road, Manehester (trading as Jonathan Brown & Co.), druggist and drysalter. January 5.

CARTNER, DAVID, 28 Parkholme Road, Dalston, and 74 Little Britain, late 2 Orchard Buildings, Haggerstone, wholesale druggist. January 22.

- CATTLE, HENRY STEED, Retford, late chemist, January 12. EASON, JOHN, 70 Bargates, Leominster, late chemist and druggist.
- January 31.
- ELLIS, JAMES, 2 Oshorne Terrace, Southsea, chemist. January 5.
- HOWELL, EVAN JOHN, Market Square, Narberth, chemist, grocer, stationer, seedsmar, and wine and spirit merehant. January 8.
- JAKENS, JOSEPH, 77 Plum Trees, Wulmersley Road, and Limefield, Bury, chemical manufacturer. January 26.
- POATE, STEPHEN, 1 Candahar Place, Landport, chemist. January 27.
- SHRIMPTON, Frederick George, 12 Market Street, and 21 New Jun Hall Street, Oxford, chemist and lodging-house keeper. January 12.
- WEBSTER, JOHN, BENRY, late 96 Westborough, Scarborough, chemist. January 30.
- WILLIAMS, RICHARD EUSTACE, The Mumbles, near Swansea, chemist and druggist. January 27.
- WILLIS, COTTINGHAM, trading in putnership at 55 High Street, Lynn, and Hunstanton, and Terrington St. Clement's, also of Winch, chemist and manure and seed merchant. January 21.

PARTNERSHIPS DISSOLVED.

- GROSVENOR, T. C. & C. H., 29 Sussex Place, Brompton, and 19 Notting Hill Terrace, chemists. December 31. Debts of the Sussex Place business by T. C. Grosvenor, and of the Notting Hill Terrace business by C. H. Grosvenor.
- MACKEY, SELLERS & Co., 1 and 2 Bouverie Street, Fleet Street, London, wholesale chemists. January 15. Debts by J. B. & J. A. D. Mackey.
- SKINNER, JOHN, & AITKEN, JOHN, M.D., 178 Govan Rot.d, Govan, chemists and druggists. December 31.

BANKRUPTS.

- BOOTH, MARY ANN, Old Hall Street, and Long Street, Middleton, ehemist and wine merchant. January 12.
- HARRISON, WILLIAM APPLEBY, & YOUNG, ALFRED, Abbey Lane, West Ham, Essex, manufacturing chemists. January 21.

DIVIDEND.

LUCAS, WILLIAM, 132 Broughton Road, Salford, chemist and oil merchant, First and final of 1s, 1d., at J. Bourdman's, 26 Pall Mall, Manchester.

THE PHARMACEUTICAL EVENING MEETINGS .- A critical correspondent writes :- We believe it was Sir G. C. Lewis who said that life would be very enjoyable but for its pleasures. In a like hemi-paradox we may lay it down that the meetings of the Pharmaceutical Society would be very pleasant and instructive if it were not for the matter which is brought forward. The advertised papers we expect to hear read and discussed, and only thoughtlessness or bad management will allow other matters to be interposed between them and the meeting. We say nothing as to the merit of the sometimes numerous subjects which are sandwiched between the minutes and the expected papers; but a want of system which forces a paper to stand over for a month, or be taken as read when there is ample time for reading it if the meeting be properly conducted, provokes remark, and we put it to the Evening Meeting Committee if there is not room to popularise the meetings by standing to their engagements.

ABSTRACTS OF SPECIFICATIONS.

For permission to print the following we are indebted to the courtesy of the *Engineer*:—

- 1634. Solvent for Gums, &c., W. F. Jack. Da'ed April 25, 1879. (Not proreeded with.) 2d.
 - The solvent is obtained from wood tar or the oils thereof.
- 1434. Cartner's Pill-coater, D. Cartner.-Dated April 10, 1879.-(Not proceeded with) 2d.

The pills are placed in a spherical vessel mounted on the end of a shaft, which is caused to revolve. The sugar or other coating is placed in the vessel with the pills, and by the rotary motion the pills are coated.

1309. GASEDUS COMPOUND FOR PRODUCING MOTIVE-POWER, W. R. Lake,-Dated April 2, 1879.-(A communication.) 6d.

The compound consists of a mixture of the vapour of bisulphide of carbon and petrolenm oil, and is produced by projecting bisulphide of carbon into a boiler supplied with heated petroleum oil.

1705. CHALK AS Manure, A. St e berg.-Dated April 30, 1879. - (A communication.) - (Not proveded with) 2d.

Calcium carbonate is crushed to powder and mixel with water, and then allowed to settle, the water being Grawn off and the calcium carbonate dried. When dry it is re-ground, and is ready to be used as a fertilising agent.

1748. OZOKEBITE IN LUBRICANTS, F. P. Warron.-Duted May 3, 1879.-(Not proceeded with.) 2d.

Czokerite is mixed with greas \cdot or oil in the proportion of two-thirds of the former to one of the latter, and is used as a cheap lubricant.

3217. MANUFACTURE OF Blasting Powder, W. R. Lake.—Dated S.ptember 14, 1875.— (A communication.) — (Not proceeded with.) 2d.

The powder is made up of nitrate of soda or saltpetre, sulphur, and charcoal, combined with peat, metallic sulphates, as well as coal of a hard nature, and the oils or fats of animals, or tar of any kind.

2003. MANUFACTURE OF Aerated Waters, M. Morris.-Dated May 20 1879. 6d.

This patent relates, first, to the prrangement of the symp injector; and secondly, to the use of automatic apparatus, whereby the rising and falling of the gasholder is caused to act upon the reid tap, so as to diminish or increase the amount of acid admitted into the gas generator, and to give an audible signal to the attendant when the supply of gas has become nearly exhausted.

1865. COMPOUNDS OF Nitro cellulcse, II. Parkes. Dated May 10, 1879. 4d.

This consists in softening the nitro-cellulore by a solvent made with tetra-chloride of carbon and camphor, and the nitro-cellulose so softened may be modded or rolled into various forms, the softening action being aided by heat and pressure.

1366. Varnish, II. Parkes .- Dated May 10, 1879. 41.

A vanish composed of nitro-cellulose dissolved in well-known solvents and shellac, with or without castor oil or glycerine, is used to coat metal, paper, glass, wood, and textile and felted substances.

2101. Aluminium, Sodium, &c., W. P. Thompson.- Dated May 27, 1879.- (Not proceeded with.) 2d.

This consists mainly in the use of fluid iron as a reducing agent, er as an assistant to the actual reducing agent, hydrogen, or carbon, the reduction being effected in a converter resembling somewhat a Bessemer steel converter.

2234. Plaster and Pad FOR THERAPEUTIC PUEPOSES, W. R. Luke,— Dated June 5, 1879.- (A communication.)-(Complete.) 4d.

The pad consists of a bag or cushion to b filled with certain herbs and drugs. The plaster has an opening for the reception of the pad. They are connected tog ther by sewing or otherwise. A piece of cloth or other material is placed over the plaster to prevent its adhesion to the clothing.

2410. PURIFYING AND Deodorising CRUDE Petroleum AND OTHER OILS, H. F. How U.-Dated Jane 18, 1879.-(Complete.) 6d.

The petrolenm is subjected to the action of chloring or other gas in such a manner that a certain portion of the hydrogen element is replaced by an equivalent of the gas. The gas employed is saturated with water or other liquid, so that its affinity for the hydrogen element in the oil is developed and made active.

1734. Pneumatic EXHAUSTING Apparatus for Medical Purposes, W. Brierley.-Dated May 1, 1879.-(.1 communication.) 6d.

The apparatus consists of a pneumatic pump made to act upon an indiarubber dise, which is applied to any part of the body so as to open the blood vessels and finest capillaries in which endowness and excenses is produced for an energical compensation of decangements caused by an incorrect as imilation or a deficient excretion.

Erchunge Column.

TERMS.—Announcements are inserted in this column at the rate of one halfpenny per word, In condition that name and address are added. Name and address to be paid for. Price in figures counts as one word.

If name and address are not included, one penny per word must be paid. A number will then be attacked to the advertisement by the Publisher of THE CREMIST AND DEUGGIST, and all correspondence relating to it must be addressed to the "Publisher of THE CHEMIST AND DUUGGIST, Colonial Buildings, Cannon Street, London, E.C.," the envelope to be endorsed also with the number. The Publisher will transmit the correspondence to the advertiser, and with that his share in the transaction will eease.

Deposit of Money.—In order to cnsure safety we (fire the following system :—The purchaser of anything advertised in the Exchange Column may remit the an unst to us We shall acknowledge receipt to both parties by post-cards, and shall only pay it away on the advice of the remitter. Whether returned to him or pail to the seller, we shall charge a commission of $2\frac{1}{2}$ per cent, on any morey thus pussing through our hands, and not less thrn 6A, on any single transaction. This arrangement should entirely prevent any cuse of complaint or dissable'action arising out of this section of The Cherkley Andreaset.

FOR DISPOSAL.

Dental and Surgical.

- A case of Maw's forceps, eight, good as new, prize 11.187. Address, Chemist, Pharmacy. Starl Hill, Bristol.
- Tooth forceps; set of 11 instruments, with gumlancet, in mahogany case, now, value 47.; for sale or exchange. John Carman, Apothecaries' Hall, Holywell.
- Teeth extracting forceps.—Upper incisors and canines, lower ditto, upper stamps, lower wisdom, lower molar, npper molar night, upper molar left. First offer over 1/, will take them, 110/35A.
- Dr. Richardson's ether apparatus, with foctbellows for producing local anæ thesia, in bax with straight, eurycd, and double sets complete, nearly naw, est 34s., will take 25s. J. Munday, 35 High Street, Bridgnorth.
- Maw's tooth-instruments in leather pouch, as good as new; key with three elaws, forceps, wisdom, upper and lower bicuspides, and stamps, two-bladed gum langet. What offers? Brown, Chemit, North Sh'elds.
- 26 American pattern tooth forceps, new, in leather pouch (see C. Ash & Sch's catalogne), price 3s, each. Comprising upper and lower biscuspides, upper centrals, inclosers and canines, lower incis rs and canines, upper end lower wisdoms, upper molar, right and left, lower molars, upper and lower stumps, &c. R. Colton, 215 Gibraltar Street, Sheffield.

Drugs and Chemicals.

- 1 lb. genuine ol. meuth. pip. Mitcham, 1877, 44s. 113/14B.
- Feur I oz. bottles Howard's Qu'ræ Sulph. What offers? 118/27.
- Best Turkey epium, 1 lb. 5 oz , and 4 oz. morph. hydroch., take one-third less than any list price. 118/28.
- Gennine English boney, 8.4. per lb. Sample sent for stamp. Langman, Chemist, Haddenham, Cambs.
- Gil mint, H.G., 15s.; good honey, 6½d.; syr. rhædaos, 6d.; morph. hydro., 8s.; opliture, 18s. 115/4.
- bout 4 cwt. fine Norfolk beeswax, genuine, good colour; price, 91, 10s. per ewt. James Watson, Chemist, Rose Corner, Norwich.

- Surplu; Stock,—Pure beeswax, good colour, Is. 8d. per lb.; carriage paid 100 m.les on 56 lbs.; samples sent. Walton, Chemist, Hull.
- 25 off 1st prices, all gool. → 8 oz. ext. luputi, 14 lbs. ras sartal. r.tb., 12 lbs. ras common juice, 23 lbs. entrium, 56 lbs. common juice, 23 lbs. entry, 16, 28 lbs. entry, 1 oz. veratria, 1 lb. ol. lavand, exot., 1 ewt. fol. senare, 81 lbs. eort, granat, 28 lbs. grd. ivory, also several patents. List sent. Fowler, Boston.

Optic 11.

- Several doz n Foller spectral s, concare and conv.ex, 20s. d..z.; sample 24 st mps, invoice price 30s. doz. Kneen, Anelley Roal, S.F.
- Spectacles for sale or exchange, six dozen, Druiff's quite new invoice, price 61, 9s, 6d, ; no reasonable offer refused, D. S. Anderson, Forfar, N B.
- Herbert & Godfrey's spectacles, $\frac{1}{2}$ dot., $\frac{1}{12}$ dot., Folder dot., $\frac{1}{12}$ dot., $\frac{1}{12}$ folders dot., $\frac{1}{12}$ dot., $\frac{1}{12}$ dot., Folder dot., $\frac{1}{12}$ dot., $\frac{1}{12}$ folders dot., $\frac{1}{12}$ dot.,

Educational.

- Skull in box, mark al plain with the alphabet of phrenology, price 30s. Parke, East Dereham.
- A complete set of books for preliminary examination, 7s. 61. Apply, Wm. Shepperson, 207 Alfreton Read. Nottingham.
- Student's her Larium of the officinal and other leading indigenous plants (120), mounted and named, 10:. 6d. Tully, Chemist, Tunbridge Wells,
- Fifty que-tions asked of a successful student at last Minor, 2s.; 30 prescriptions (catch and difficult) given to dispense at Minor during past session, 2s.; reagent labels for Minor students, showing formulæ, equations, and other nseful knowledge, 1s, 6d.; lot of ebcap books for students; send stamp for list. Saunders, Tutor, 79 Gaisford Street, N.W.
- Judd's preliminary works, "Cæsar," "Tbema," "Arithmetic," "Metric System," "Ex mition Papers, with Workings, for 1879," "Sbort Cut to the Preliminary," 6: 66, the lot, cost 12s.; Owen's "Pharmacy," 10d.; Ainsworth's Latin Dictionary, 3s. H. Matthews, Jeffereys' Library, 84 Waterloo Road, S.E.
- 31. 3s. Statham's chemical cabinet, almost new, price 2f. Southall's materia medica (abinet, with Bentley's "Botany," Wils' "Elements of Pharmacy," dispensing memoranda necessary for the Minor, &c., price 25s. Sent carriage free on receipt of P.O.O. Address, Alfred Smith, North Street, Winchcomb, near Cheltenhan,
- Immediate Disposal for Cash. A first-class chemical cabinet, chemicals, and apparatus, only been used once, and quite new, original cost about 10*l*., to be soll for 6*l*.; also Tully's materia medica cabinet, guinea size, and Tully's 7*s*, 6*d*. herbarinm, usither have been used, and are just as received, each 1*l*. E. K. Smithson, 208 Freeman Street, Grim.by.

Shop Fittings.

- Neat marble fountain for shop; bargaiu; particulars free, 105/27.
- Fixtures for shop, 14 ft. by 12 ft., for 32/. 10s. R³ Tomlinson, Shop-fitter, 15 St. Paul's Square, Birmingham.
- Bargain.—One of Dows Clark's No. 2 soda-water machines, in good couldition, apparatus for bottling syphons attached, will take half the cost price; also a large cistern water-filter. Halls, Chemis*, Newark.

- Sale or exchange, connter glass and cases other fixtures. Moore, Chemist, Brierley Hill.
- Six dozen 16 and 20 oz. goll-label'ed stopperel shop-rounds, 6s. per dozen ; two 2-gallon show earboys, 4s. each ; pill machine to eut 12 5-grain pills, 4s. 6d. T. Bridger, Arlesey Baldock.
- Two specie jars, as Maw's fig. 1, 27 inches bigh, mahog my stands; mahogany glass case, bent top, 3 feet long, 18 inches wide, 7½ inches bigh, as Maw's fig. 102; about 200 shop bottles, various, from 2 oz. to 40 oz. Bates, 6 Clurisp Street, Poplar.
- Handsome show-case, fig. 3 Maw's entalogue, cost 11*l.*, good as new, what offers? pair Avery's beam seales (28-in. beam), weigh four Winehesters at onee, copper pans, take 17s 6d.; Spong's advertising lamp, revolving star, take 20s. Furguson, Chemist, Leeds,
- Surgeons and Chemists.—A bargain, stock of a deceased chemist's shop, ecnsisting of 100 shop bottles, jars, scales, window showbottles, nest of mahogany drawers, and abont 200 stock bottles, with contents, &e., what offers? Entwiske, 153 Princes Road, Kennington, S.E.
- Nest mabogany-painted drawers, 12 feet by 4; nest small drawers, 4 feet square; nest small drawers, 40 inches by 46, gold labelled, for garden seeds; a mahogany plate-glass flat counter-case, 54 inches hy 30; a new iron eistern, 100 gallons, with brass tap and screw bung perfect; what offers for original bottles H.G. Hotch, 01 menthe pip. ? a cupboard with two glass doors, 38 inches square, 10 inches deep. Edward Home, Chemist, Barn ley.
- A Bargain.—Connter-cases, all plate-glass, fig. 16, 3 ft. long, 40s; 4 ft. 6 in. long, 50s; fig. 41, 4 ft. long, 80s.; 5 ft. long, 61,; fig. 100, 3 ft. long, 60s.; 3 ft. 6 in. long, 70s.; 5 ft. long, 81. 10s.; fig. 105, 6 ft. long, 71.; 6 ft. long, 81. 10s.; fig. 99, 6 ft. long, 71.; fig. 99, 5 ft. long, 51. 10s.; fig. 101, 4 ft. long, 90s.; fig. 95, 4 ft., 90s.; a number of other sizes; tooth-brush eases, fig. 52, 30s.; double-bend ditto, 27s.; 6 ft. wall-ca-e, fig. 199, 121.10s.; 12-ft. fixture, 197, 181.; 16-ft. do., do., 221. E. Natali, 207 Old Street, E.C.
- A 6-ft. dispensing sereen, as Maw's 164, with tablet, 71.; several very handsome dispensing sereens, as Maw's fig. 78, from 4 ft. to 6 ft. 6 in., from 41. to 51.; sponge case, fig. 90, 70s.; fig. 92, 51., plate glass; 3 ft. 6 in., plate glass case, Maw's fig. 3, equal to new, 61. 10s; a 3-ft. 6-in, ditto, with square case in front, 41.; a 6-ft. 10-in., as fig. 43, to open in front in three divisions, 71. 10s.; a 3 ft. bent plate-glass counter case to open in front and back, 60s. E. Natali, 207 Old Street, E.C., almost opposite Great Eastern Street.
- Bargains .-- Glass displacement apparatus, 1gall., Maw's fig. 1, 20s.; 1-gall. tineturepress, 15s.; leech aquarium. on stand, 9s.; 11-in. evaporating dish, with lip, 1s, (d.; No. 10 Wedgwood mortar, 7s. 6d.; 24 5 and 3 grain reversible pill machine, 20s. ; 24 3 grain pill machine, new, 16s. 6d.; cut paper stand, mahogary, 8s. ; 8-ft. 3-in, mahogany top counter, fitted with 20 drawers, 61. 10s. Every requisite for chemists' shops : Bottles, jars, carboys, specie jars, &c.; a pair specie jars, glassgold covers, 27 in. high to top, Royal arms, equal to new, 5/. ; 1 doz. turquoise blue jars, as Maw's fig. D, elaborately labelled in gold, with glass-gold covers, equal to new, 8s. each, worth 13s.; jnjube-jars, gold-labelled, 2s. 9d. each ; a set of three earthenware vases, as Maw's page 114, illustrated, "Honey," "Leeebes," "Tamarinds," 15s. set, blue and gold. E. Natali, 207 Old Street, almost opposite Great Eastern Street.

14-ft. 6-in. plate-glass cupboard, Spanish mahogany frame, in very good condition, very cheap, suitable for the under-part of wallcase; one each dispensing screens, 7 ft. and 6 ft. long, with glass case at each side, and silvered plate-glass centre, with marble slab in front, the cases have silvered-glass backs and shifting shelves, with tablets over cases "Dispensing Department," 81. 10s. each, worth double ; sponge case, as Maw's fig. 92, 51.; desks and cases, fig. 21, 65s.; 8-ft. dispensing screen, fig. 165 Maw's, with silveredglass back and tablet on top, 9%, a bargain. E. Natali, 207 Old Street, almost opposite Great Eastern Street.

Literature.

- Fowne's "Cbemistry," in good condition. 120/8.
- Chemist and Druggist, 1873, one missing, and 1879 perfect, 10s. 113/14c.
- Carpenter's "Human Physiology," edited by Power, eighth edition, not soiled, cost 30s. Ginns, Rotbwell, Kettering,
- This year's Diary, highest offer, new; this year's Chemist, half price, no postage, three days after publication. Cocking, Sittingbourne.
- Chemist and Druggist since 1869, in good condition ; what offers ? Cash, patents, or drugs. A. McIver, Dingwall.
- Attfield's "Cbemistry," 4th edition, Fownes' "Chemistry," 11tb edition; in good condi-
- tion ; half price. Adams, Chemist, Malvern. Pharmaceutical Journal, 9 vols., third series, in good condition, complete, 3 vols. bound, 45s. 108/11.
- Twelve vols. Chemist and Druggist, bound in blue cloth, exchange anything useful, drugs or patents. 110/23.
- What offers in cash for Pharmaceutical Journals, bound, 29 yols, in all, from 1854 down to 1873, and 3 vols. unbound, from 1873 to 1875 ; must be sold. Judson, Wycombe, Bucks.
- The Chemist and Druggist for 1865, '66, '69, '70, '72, '73, '75, '76, '77, '78, '79, a few missing; "Year-book of Pharmacy," 1874-75; 1-gallon glass percolator, graduated ; what offers, or exchange ? Lea, Folkestone.
- Smellie's "Midwifery," 3 vols., and 1 vol. of plates, 7s. 6d.; Culverwell's "Green Book on Syphilis," with numerous illustrations, scarce, 3s. 6d.; Attfield's " Chemistry," 1877, 5s. Delivered free in London. 113/14A.
- Attfield's "Chemistry," Wills' "Materia Medica," Wills' " Pharmacy," Rivers Wilson's " Chemistry," as good as new, for 17., carriage paid. Rogers, 65 Rice Lane, Walton, Liver-The pool.
- Practitioner, monthly, post free, Tait's " Disea: es of Women," Acton's " Reproductive Organs," Tanner "On Discase," "Frank Fairlegh," Forrest's measnring apparatus for paraffin. J. Dove, Sherburn, S. Milford.
- Medical books for sale; among others Aitken's " Medicine," Watson's "Physics," Erichsen's "Surgery," Barlow's "Medicine," Redwood's "Fharmacy," Beasley's "For-mulæ," Proctor's "Pharmacy," Yearbooks, from 1870 to 1875, ten years Pharmaceutical Journal, bound and unbound, five years Chemist and Druggist, unbound, but clean and perfect. Many others too numerous to mention in advertisement; detailed list will be sent. Charles Andrews, Hunstanton, Norfolk.

Formulæ.

For composition and ink for graph., 1s. 3d. each.

"Grapho," Genera House, Bideford.
"Grapho," Genera House, Bideford.
Chlorodyne, good as Collis Browne's, easily made, mix perfectly with water, recipe 5s., bar-gain; aqua lavand., finest quality, cheaply made, only 2s. 6d.; cold cream, good as Patey's, 1s. G. Roberts, Sontham, near Buche. Rugby.

- bian blacking.—Recipt for preparation similar in appearance, smell, and effect to above, with directions, 2s. 6d. Wittstien, Lower Broughton, Manchester. Nuhian
- Tooth-wash, bighly fragrant, lathers freely, also tooth-paste, best extant, both are first-class recipes, preparations sure to sell well, 6s. cach. 102/25.
- Two hun lred formulæ, valuable and effectual remedies (medical, vetcinary, and proprie-tary), all genuine; bear good profits and command an extensive sale; copied neatly in book for 11.; a rare chance. "Medicus," in book for 11.; a rare chance. 43 Tontine Street, Folke-tore.
- Indestructible marking-ink (sine silver), usable with any pen, requires no heating, writing unobliterated by chemicals ; brilliant polish for leather (resembles "Nubian" blacking), soluble essence of ginger (equal to Hay's), cherry tooth-paste (never ferments), elixir (or vinum) pepsing, toilet vinegar (equal to Discussion) estimates and the second second Rimmel's), with several others. Send stamp for list, all gennine and reliable, 5s. each (five for 12.). "Analytical Chemist," Her-Heblethwaite, Cumberland Market, bert N.W.
- Fragrant foaming dentifrice (similar to Floriline); glycerine jelly (perfectly transparent); cherry tooth paste (never ferments, brillantine (inseparable); lime juice an glycerine (inseparate); fine-juice and glycerine (inseparate); fine-juice and spiendid black ink (never corrodes steel-pens); marking ink (black or red); effer-vescing fruit saline (resembles Eno's), pill-coating (pearly white, no mucilage or mastic used); magic neuralgic drops (never-failing remody); quininc and iron tonic (resembles Pepper's); excellent chilblain paint; cough with many others; send stamp for list. The toilet articles are identical with those preto be articles are identical with those pre-pared by a renowned West kind perfumer; the others are equally good; all inexpensive to prepare; 5s. cach (five for 1*l.*); inquiry letters must be prepaid. "Analyst," care of Mr. Warnes, 79 Gaisford Street, N.W.

Miscellaneous.

- One dozen each size 1s. and 2s. Scott's cigarettes ; what offers ? 110/35B. For cash, nearly new, five-barrelled central-fire

- For cash, hearly new, nve-barreled central-free revolver; what offers? cost 26.4, 117/16. Half-gallon displacement apparatus, shape fig. 1 Maw's, York Glass Company's, cost 30s, Ginns, Rothwell, Kettering. Cocking's double-action pill machine, new, cost 101., 74, 55.; burnisher, 4s.; Maw's boughe monitod 55. 111/25.
- N. M. S. 11/25.
 Szveral pounds gold bronze, oz. packets, offers wanted. Sample packet eight stamps. Owen, Chemist, Great King Street, Birmingham.
 Twenty-siz, 134d. bottles, 15, 14d. bottles
- https:// 13 $\frac{1}{2}d$. bottles, 15 $\frac{1}{2}d$. bottles Robert's vegetable corn solution, clean; 1 $\frac{1}{4}$ cwt, yellow ochre; what offers? 111/23.
- Two large show globes, cut stoppers, specie iar. Maw's 20; quantity petroleum laups, bar-gains. B., 11 Bridge Street, Goole. Strong, healthy, docile, straight-limbed mastiff
- dog, 16 months old, good guard, pedigree and particulars given. Highest offer over 57. accepted. 110/35
- To be sold, cheap, 600 effectively-printed show-cards for mounting insect powder; also three gross tin boxes. A. D., 80 Fleet Street, London, E.C. A small stock of sauce, similar to Worcester-
- shire, to be disposed of, excellent, 4s. gallon; write for sample. "Relish," care of house-keeper, 19 and 21 Queen Victoria Street, London.
- Pair French scales, cost 10s., 2s. 6d.; good silver lever watch, maker Pitt, Manchester Square; in good going order, 3l.; watch free and registered anywhere ou receipt of money. 113/14D.
- money. 113/11D. 170 gold labell d quart and pint syrup and other bottles, 6 colour bottles capacity 4 g-llons, and 50 blue octragon-shaled finted 8 and 16 oz. poison bottles, circular stands for carboys, medical books. Leaver, Devons Bood, Browley, E Road, Bromley, E.
- Ch mist and Druggis', unbound, clean, five years, 1874 to 1879, price 22s.; strong sodawater basket for twelve, gool as new, 4s, 6d.; sciles, on mahogany staud, with draw, 18s, 6d.; 90 numbers (consecutive) Pharmaceutical Journal; offers. Stead, Lees, vid Manchester.
- ria Manchester. Rarc bargain.-69 w.m., 86 n.m., 40 oz., 17 n.u., 18 w.m., 16 oz., 16 n.m., 14 w.m., 8-oz. white fint stoppered bottles; 28 4-b, and 32 4-b, blue pars, with lids; new enamelled evaporating-dish, 18 inches enamelled evaporating-dish, 18 inches across, 4 inches deep, handles and spout; free to rails for 71. 111/20.

- Cheap, a large quantity of pots, suit the wholesale trade, new; mineral water, ginger-beer bottles, and nested baxes for same. J. W. Adams, 110 Robert Hall Street, Saiford. Bargains.—Sonthall's materia medica specimens,
- complete, each neady mounted in seidlitz boxes, labelled, excellent for museum or private study, 20s.; Royle's 5th edition 4s. 6d. Public School Latin Primer, 1s., 'Aids to Botany,'' 6d. Richards, 18 Picker-ing Phace, Bayswater.
- Best red lead, 5 cwt., at 21s.; homeopathic show-case, cost 37.3s. from Ashton's, price 17.; marble mortars, 18 inch, 18s; 12 inch, 6s. 6d.; <u>1</u>-gallon tincture-press, on legs, new, 12s.; swan carboy, 30 inch, 15s.; specie jar, 18 inches, 22 inches, with gill cap., perfect, 26s.; shop-scales, 10-inch b am, drawers and weights, good as new, 20s. Floyd & Hicks, Bury St. Edmunds.

WANTED.

Large copper-still. Sawer, 61 Cheapside. Homeopathic counter show-case, empty. Casely,

- Chemist, Camdon Town. loway's "Qualitative Analysis." Hinde, Galloway's
- Clowne, Chesterfield. A work on physics, suitable for a Minor student. 99/20.
- Crews' disinfecting fluid. Send quantity, sizes, and price to Crassweller, Bury St. Edmunds, Soda-water machine, wanted to purchase one.
- " Alpha," 8 Charlwood Terrace, Putney. Morphia mur. and quinine; state make and
- quality. 115/7. Homeopathic Pharmacopæia, Acton's works. Cocking Sittingbourne.
- Allan's att-fat, clean large compo mortar. 117/15. "Cassar in Gaul." II. Verity, Pateley Bridge,

- "Creasar in Gaul." H. Verity, Pateley Bridge, rid Leeds, Yorkshire. ID Solver and Sol
- 61 Cheapside. Three 40 oz. syrup bottles, opaque white glass. Wright, Chemist, Burnley.
- Codd's patent bothes; any quantity bought under 50 gross; full size. Ettles, Elgin. Five cwt. platform weighing machine; must be
- accurate and equal to new. Particulars, Furnival, Chemist, Hanley, Potteries. Human skull (adult) with teeth; also two arm
- or leg bones; good condition; must be cheap. Ginns, Rothwell, Kettering.
- gallons; also pessary-mould for 12. Par-ticulars to C. L. M., 13 Whitefriargate, Cistern
- Hull. me's "Chemistry," 12th edition, Attfield's "Chemistry," 7th edition. Williams, Long-Fowne's fleet, Pool .
- Year-books of Pharmacy, from commencement to 1876. Newsholme, Pharmaceutical Chemist, Sheffield. Copying apparatus.—Recipe for composition and
- ink, 1%. Wittstien, Lower Broughton, Manchester.
- Good galls, gum siftings, ground myrobolans, cheap. J. W. Adams, 110 Robert Hall Street, Salford.
- Student .- Chemical apparatus, cash, or Major exchange cort. nectandræ, books, &c. Mason, Penge Pharmacy, Penge.
- No. 9 Wedgwood mortar, also mixing machine, suitable for 14 to 28 lbs. baking powder, &c. Marlar, Halstead.
- purchase the entire fittings of a small chemist's shop. Send list of contents and price, which must be low, to E. Miller, 39 St Paul's Square, Preston.
- Five or six 6-gallon window-carboys, pear-shaped preferred. For exchange or sale 6 2-gallon. W. R. T., 19 Clevcland Terrace, Middlesborough.
- To exchange for reading for the Dental Cosmos, (hemist and Druggist, Pharmaceutical Journal, British Journal of Dental Science other medical or scientific journal.' 113/6.
- Ten-oz. and 4 or 5 oz. shop bottles, new or accould hand, wide and narrow mouthed, labelled or not, must be cheap; also some
- habelled or not, must be cheap; also some extract pots, 4, 6, or 8 oz.; and Gray's "Supplement," last edition. E. Miller, 39 St. Paul's Square, Preston. Babington's "Maunal of British Botany," pocket edition (or Hooker's); Sowerby's "Illustrated Key to the Natural Orders of British Wild Flowers," Lindley's "School Botany "; all to be in good condition. Lowest cash price to F. Gall, Carshalton, Surrey Surrey.



THERE seems every reason to hope that the improvement in business which has been made apparent for some time past, and which so many commercial men have been slow to believe in, is really solid and extending. The official returns for January arc especially encouraging. They still show, of course, a considerable increase in our imports of food, but they also show generally an increase in the imports of raw materials for our manufactures, and an advance of nearly 20 per cent. in our exports all round as compared with those of January, 1879. The value of our exports in January, 1879, had declined to 14,196,5187; last month they had improved to 16,912,8587. In most quarters, too, the prospects of trade are spoken of more hopefully, and as the restoration of confidence is one of the chief factors upon which the improvement depends, this feeling is itself an item of promise as to the prospects for 1880.

Chemicals have shared in a marked degree in the general improvement. The subjoined figures will show how the export of these is on the increase :---

		Januar	y, 1879		Januar	y, 1880
		Tous	Value		Tons	Value £
Exports of alkali Chemical products		461,912	143,218	••	501,003	180,210
cnumerated)	•••		125.063			176,246

In almost all chemical products there is a tendency upwards in price, in some instances to an almost exaggerated extent. Both home and foreign demands for heavy chemicals are strong, the trade with America being especially good. Bleaching powder has been in continual demand, until the London price is now quoted 91 per ton. Soda crystals are now 87s. 6d. per ton, and bicarb. is firm at 127, 10s. to 127, 15s., an advance of 30s. since last month. Makers show considerable reluctance to make future contracts, and little can be done in this way except at still higher rates. Cream of tartar is getting a good deal dearer, and it is quite possible that it may reach very much higher figures still. The production of wine in 1879, on which the supply of argols depends, is said to be very small, general estimates placing it at not much more than half that of the previous year, which itself was hardly up to the average. It is probable that there had been a good stock of argols in hand, but it is not likely that there was anything like enough to compensate for the insufficiency of the new stock. Tartaric acid, which depends on cream of tartar, is also advancing and firm, and citric is up to 2s. 5d., in conscquence of an advance in the price of lemon juice coinciding with the moment when everybody wants to make his contracts for the spring. Potash and ammonia salts are unchanged. Saltpetre has advanced 1s. 6d. per cwt. during the month, British refined now selling at 27s. 6d. to 29s. Borax has rapidly advanced during the past fortnight, and is now 50% for English refined. This is due to a limitation is now 50s, for English refined. This is due to a limitation of the production in California. Powdered arsenic is higher at 11s. 3d. to 11s. 6d., and alum is also somewhat firmer at 71. for lump, and 71. 15s. per ton for ground. Quicksilver fluctuates between 77. and 71. 10s. per bottle. The following calculation will show the position of this metal :- At the end of 1877 the estimated stock in the world was about 80,000 flasks. Add to this the Californian product for two years, 136,000 tlasks; the Spanish production, 80,000 flasks; and that of Anstria, 20,000 flasks; and we have 316,000 flasks to be accounted for. It is estimated that the stock at the end of 1879 was not more than 50,000 flasks. This shows an annual consumption of 133,000 flasks, which is very much greater than it was supposed to be, and which, if maintained, will give frequent opportunity for a sudden advance in price. Iodine is still firm at 1s. 2d.; bromides are dull.

Prices of drugs are well maintained, and fair quantities have been bought, but the tone of the market is not active.

Barks are in quiet demand for South American kinds, bu have been very firm for Ceylon and E. I. pareels, especiall, for the finest qualities. The last harvest of E. I. barks i believed to have been over-estima'ed, and this has given a impetus to the price.

At the latest sales on Tuesday last prices were fully main tained for fine E. I. cinchona, and an occasional advance wa established. Some fine Neilgherry moss-renewed realised 9s. 10d. and 9s. 11d. South American kinds were not in much demand, but holders declined to accept any reduction and a good part of the stock was withdrawn. Quinine re mains firm at last month's prices.

A renewal of firmness has been apparent in the opiun market, owing to reports of higher prices having beer paid in Smyrna, and to the smallness of the stock here Rumours of injury to the coming crop have already commenced.

Balsam of eopaiba is still kept up to its high rates. good deal of firm holding of this drug is reported from America, where yet higher prices are anticipated.

Camphor has arrived in great abundance, and the price here has fractionally given way for crude, some forced sales having occurred, but it is asserted with confidence that present holders have squared the sources of supply, and that they will maintain prices.

Castor oil has become very flat, and has declined to the extent of $\frac{1}{2d}$, per lb. Cod-liver oil is higher, pale Norwegian Cape having sold for 5s. 6d, at last sales. Aloes are still declining. Cubebs are held firmly, and 90s, is the price now asked for them. Honey is still selling at high prices. Aniseed and the oil are quoted lower. Rhubarb is dull of sale, and jalap has relapsed a trifle further. Saffron has been forced np by continental houses, but without much response herc, and it is doubtful whether there is really much cause for the advance. A heavy and continuous decline has occurred in shellae.

OILS.—Linseed is steady at 27% for spot and 10% to 15%, dearer for forward purchases. Rape has declined, but has since recovered during the month, closing at rather less than last month's quotations. Olive has not been largely dealt in. The tendency is towards a decline, as the reports of the coming crop in Italy are very favourable, and holders are, therefore, anxious to dispose of their present possessions. Cocoanut is 1% lower, at 35% to 37%, and cottonseed has declined 1% per tun, being now 28% to 29%. Turpentine has lost some of its recent advance, and may now be bonght at 32% 6%, which is a recovery from recent prices. Petroleum has fallen still lower, and though a fractional recovery has occurred within the past week, it still hovers at a fraction over or below 6%.

	1850	1879		1880	1879
· · · · · · · · · · · · · · · · · · ·					
Aloescs	1,363	2,379	Gum (cont.)-		
,,kegs	1,505	2,315	Galbanum pkgs	12	19
	594	302	Cambono	189	186
Aniseed, Star chts	461	616	Guaiacum.	- 57	10
Arrowrootcks	10,098	12.817	Kino "	- 38	ii
, bxs & tins	13,868	6,246	Kowrie tns	452	928
Balsam cks, &c.	26	66	Mastic pkgs	117	- 165
Bark, Medicinal			Myrrh, E.I.	125	115
cks, &c.	751	565	Olibanum.	1.655	1,549
" srns, &c.	17,586	11,085	Sandarac	344	1,205
Boraxpkgs	484	1,160	Senegaltus	16	17
Bees' Wax bls &		,	Tragacanth pkgs	2.164	1,554
srns	1,053	917	Ipecac cks & bgs	172	246
" eks & cs	2,727	1,820	Jalapbls	281	450
. cakes	6	27	Nux Vomica pkgs	922	14,602
Wax, Jap.veg. pkgs	3,039	4,967	0:1-		
Camphor pkgs	3,953	1,139	Castorcks	126	3
Cardamoms chts	333	209	,,CS	14,226	5,140
Cocc. Ind. bgs, &c.	1,275	1,635	Palmtns	217	1,105
Colombo root pkgs	411	738	Cocoanuttns	4,745	1,959
Cream Tartarcks	113	93	Olivecks, &c.	1,564	472
Cubebs bgs	98	167	Aniscedes	136	69
Dragonsblood chts	81	109	Cassiacs	316	231
Galls, E.I. cks & cs	1,267	4,101	Opiumchts, &c.	1,258	1,199
M'terrancan sks	512	841	Rhubarbchts	1,248	1,266
Gum-			Sarsaparilla bls	535	908
Ammoniac pkgs	413	469	Sennabls, &c.	1,519	1,742
Animi & Cojal			Shellac -		0000
pkgs	2,325	. 5,218	Orangechts,&c.	21,715	27,266
Arabic, Barbary	1.007	1 100	Garnet "	11,799	10,046
pkgs	1,837	1,182	Button. "	1,983	4,074
Turkey,	3,469	338	Gambiertons	2,233	$3,273 \\ 3,026$
E.I	$1,779 \\ 315$	1,606 276	Cutch "	945 275	3,026
Assafætida pkgs	1,280		Tortoiseshell, cs, & c.	2,748	2,120
Benjamin. "	1,280	1,173 1,358	Vermilion	2,748	2,120
Damar ,,	1,245	1,598	verunion	100	23

Monthly Price Current.

he prices quoted in the following list are those actually obtained in Mincing Lane for articles sold in bulk. Our Retail Subscribers must not expect to purchase at these market prices, but they may draw from them useful conclusions respecting the prices at which articles are offered by the Wholesale Firms.

HEMICALS.		18	80.				18	879	•		
ACIDS-	8.	d.	•	8.	<i>d</i> .	s. 0	d_{\cdot}	to	s. 0	$\begin{array}{c} d. \\ 0 \end{array}$	
Aceticper lb.	0	$\frac{21}{4}$	to 	0 0	$\frac{3\frac{1}{2}}{7}$	0	$2\frac{3}{4}$	••	0	0	
glaciale " Benzoic Sublimate	0	9 <u>3</u>	••		10	0 0	0 0	••	0	0 0	
Citric	$\frac{7}{2}$	6 43	•••	0	$\begin{bmatrix} 0\\ 0 \end{bmatrix}$	2	0	•••	0 0	0	
Gallic	3 5	6 0	••	3 7	10 0	0	0	•••	07	0	
Hydrochlorper cwt. Nitricper lb.	0	4		0	0	0	41	••	0	0	
Oxalic	0	$\frac{5}{0}$	••	0	$\begin{bmatrix} 5 \\ 4 \\ 0 \end{bmatrix}$	0	4 g 0	•••	0	$4\frac{1}{2}$	
Sulphuricper ton Salicylicper lb.	0	0		8	6	0	9		0	0	
Taunic	$\frac{1}{1}$	8	•••	2 1	8 71,	0	0 41		0	$\frac{0}{4\frac{3}{4}}$	
Tartaric crystal ,, powdered ,,	1	7		1	$7\frac{1}{2}$	1	4 2		1	$4\frac{1}{4}$	
ANTIMONY ore per ton crude per cwt.	0 0	0	•••	0	0	$\frac{240}{32}$	0 6	•••	300 0	0 0	
star ,,	0	0		0	0	$\frac{49}{25}$	0	••	51	0	
ARSENIC, lump ,	$\frac{23}{11}$	$\frac{6}{0}$	•••	$0 \\ 11$	6	2.5	0	•••	$\frac{0}{10}$	$\begin{array}{c} 0\\ 0\end{array}$	
BRIMSTONE, rough per ton 1	10	0	••	0	0 9	$\frac{100}{9}$	$\begin{array}{c} 0 \\ 6 \end{array}$	••	$\frac{102}{10}$	6 3	
	$\frac{9}{10}$	$\frac{6}{6}$	•••	$\frac{10}{12}$	6	10	6	•••	13	0	
GLYCERINE, German		0		60	0	0	0		0	0	
refined,	46 28	ŏ		30	ŏ	0	0	:	0	0	
IODINE, dryper oz.	1 1	$\frac{2}{10}$	••	0	0	1	$\frac{1}{10}$	••	0	0	
MAGNESIA, calcinedper 1b. MERCURYper bottle 1		0		0	0	125	0	•••	0	0	
MINIUM, red per cwt.	$\frac{21}{29}$	$\frac{3}{0}$	••	0 3)	$\begin{bmatrix} 0\\ 0 \end{bmatrix}$	$\frac{16}{28}$	9 6	•••	$17 \\ 0$	0	
PRECIPITATE, red . per 1b.	3	2		0	0	3	3		0	0	
White "	3	1	•••	0	0	3 0	$\frac{2}{0}$	•••	0	0	
SANTONINE	25	0		27	0	0	0	••	0	0	
SALICINE	$\frac{16}{26}$	0	••	$\frac{0}{27}$	0 0	0	0	•••	0	0 0	
Alumper ton 1	.35	0	••	140	0	120	0	••	12 2	6	
	55	0	••	0	0	140	0	••	0	0	
Carbonate per 1b.	0	$6\frac{1}{2}$	••	0	63	0	$6\frac{1}{2}$	••	0	$6_{\frac{3}{4}}$	
Hydrochlorate, crude, white per ton 6	300	0	••	800	0	600	0		720	0	
British (see Sal Am.)		0		0	0	375	0		38)	0	
Sulphate perton 4 Argol, Cape percwt.	77	0		86	0	75	0	•••	82	0	
Red,	50 35	0	•••	$\frac{75}{36}$	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	52 32	0	•••	$\frac{70}{33}$	0 0	
Sicily	0	0		0	0	6)	0	•••	65	0	
Ashes (see Potash and Soda) Bleaching powdper cwt.) 9	0		0	0	5	9	••	0	0	
Borax, British refud. "	50	0	••	0	0	35 2	6	••	36	6	
Calomel per lb. Chloral hydrate ,,	2 4	$\frac{11}{2}$	••	0 4	0 4	õ	$\begin{array}{c} 10 \\ 0 \end{array}$	•••	0 0	0 0	
Liebreich's "	5	10	••	6	0	0	0	••	0	0	
Copper: Sulphate per cwt.	21	0	••	21	6	18	3	••	18	6	
Copperas, grcenper ton Corrosive Sublimate p. lb.	$\frac{50}{2}$	$\frac{0}{5}$	••	55 0	0	$\frac{50}{2}$	0 3	••	55 0	0	
Cr. Tartar, French, p. cwt. 1	22	0	•••	0	0	100	6	•••	101	Ō	
Epsom Salts "	92 4	6 3	•••	- 93 - 6	$\begin{bmatrix} 6\\ 0 \end{bmatrix}$	80 4	$\frac{0}{3}$		82	6 0	
Glauber Salts	3	0	••	4	6	3	0	••	4	6	
Magnesia : Carbonate " Morphia Murias "	4 2 8	6 0	••	0	G	47 0	6 0	•••	0	0 0	
Potash : Bichromateper lb.	0	63		0		0	43			5	
Carbonate :	0	04	••	v		, v	-11 <u>(</u>	••	•	0	
Potashes, Canada, 1st sortper cwt.	27	0		27		25	6		0	0	
Pearlashes, Canada, 1st	34	9		0		36	0		0	0	
Sort per cwt. Chlorate per lb.	0	7§		Ó.	3	0	6	•••	0	61	
Prussiate	1	$\frac{111}{8}$	••	1	$11\frac{1}{2}$ $10\frac{1}{2}$	0	$\frac{11}{72}$	••	$\frac{0}{1}$	11½ 8	
Tartrate (see Argol and C Potassium :	rea	m o	f Ta	rtar)	2		2				
Bromide		11		2	0	1	8		0	0	
Chlorideper cwt. Iodideper lb.	$\begin{array}{c} 0 \\ 18 \end{array}$	0 0	••	0 18	0 6	6 16	6 0	••	$\frac{0}{16}$	$\begin{array}{c} 0 \\ 6 \end{array}$	
Quinine :	10	0	••	10	U	10	0	••	10	0	
Sulphate, British, in bottles per oz.	12	0		0	0	11	3		0	0	
Sulphate, French	12	0		12	3	11	6	•••	11	9	
Sulphate, German ,, Jal Acetos per lb.	11 0	0 7		11 0	3 71	0	$ \begin{array}{c} 0 \\ 6 \\ \frac{1}{2} \end{array} $	•••	0 0	$\frac{0}{7}$	
Sal Ammoniac, Brit. cwt.	44	0	••	45	6	44	ບ້	••	45	0	

AND	DRUGGIST.									81
			1	188	10		P		187	0
នារា	tpetre :	<i>s</i> .	d.	.00	8.	d.	1	s. d		1. d.
В	engal, 6 per cent. or		0							10.0
B	underpercwt. Sengal, over 6 percent.	23	9	to	24	3	1	8 6	to	19 3
D	per cwt.	22	9	•••	23	6	1	7 6	••	18 3
	ritish. refined "	27	6	••	29	0	2		••	25 0
	a: Bicarbonate "	12	6	••	12	9		6 9	••	9 0
U	arbonate: Soda Ashper deg.	0	$2\frac{1}{2}$		0	0		0 11		0 0
	Soda Crystals per ton	87	6		0	0	6.	$2 - 6^{-}$	••	65 - 0
	austic	0	0	••	0	0	1		••	$ \begin{array}{ccc} 10 & 3 \\ 0 & 0 \end{array} $
H N	Iyposulphite, per cwt.	0 19	0		$0 \\ 19$	0 3	1		•••	00
Zine	c Sulphate,	0	0		0	0	1		••	0 0
SUGAR	OF LEAD, White cwt.	$\frac{40}{26}$	0	••	0	0	8: 2(••	0 0
VERDI	Brown, cwt.	25	6 0		0	ö	2		•••	1 5
VERM	ILION, English ,,	$^{-2}$	8	••	- 0	0	1		••	0 0
DRUG	China "	2	3	••	0	0	1 :	2 3	••	0 0
	, Hepatic per cwt.	60	0	••	15)	0	63	5 0	••	170 0
	Socotrine "	46	0	••	19)	0	80		••	210 0
	Cape, good ,, Inferior ,,	37 34	0	••	$\frac{38}{36}$	0	39		••	$\frac{38}{35}$ 0
	Birbadoes,	4)	ő		215	0	4			170 0
	RGRIS, greyoz.	55	0		85	0	57	0	••	80 0
BALS		0	0		0	0	() 8		0.81
	adaperlb. ivi ,,	2	3		3	ö	ì		•••	$1 10^{10}$
\mathbf{Per}	1	- 7	3		7	5	4	1 8		4 9
Tolu BARE	1	3	2	••	3	4	1	2 8	••	2 10
Can	ella albaper cwt.	12	0		18	0	2	0	••	30 0
Case	parilla "	18	Ő		21	Ő	2			33 0
CINCH	IONA-	r,	6		7	0		6		66
Cansa	ya, good and fine per lb. medium ,,	53	$\frac{6}{9}$		5	0			••	50
N. Gra	anad., fair to fine ",	6	G		7	0	() ()	••	0 0
altan	,, ord. to mid. ,,	- 3 - 3	0 6	••	6 4	0 6	4		••	$\begin{array}{c} 0 & 0 \\ 6 & 4 \end{array}$
Contin	, ord. to fair	1	6		3	0	j		••	3 6
Cartha	agenı, fair,	2	9		3	3	1		••	4 6
тт.	good medium,	2 7	$\begin{array}{c} 0\\ 6\end{array}$	••	$\frac{2}{9}$	8 11	1		••	
Cevlor	1, crown	- 3	6	•••	7	2	4		•••	7 0
	red ,,	1	9	••	3	0	(•••	0 0
Danior	twigs and chips ,	$-\frac{0}{2}$	$-8\frac{1}{6}$	••	1 3	$\frac{0}{3}$	1		••	$\begin{array}{ccc} 2 & 2 \\ 3 & 9 \end{array}$
BUCH	eling, rel,	ő	3		1	4	i		•••	1:0
CAMPI	HOR, China per cwt.	102	6	••	0	0	78		••	8) 0
	Japan ,,	112	$\frac{6}{6}$	••	0	0	(••	0 0
CANTI	Refin. Eng. per lb.	1	10		4	3	1			4 3
CHAM	OMILE FLOWERS p. cwt.	49	0	••	90	0	4		••	80 0
CASTO DRAG	REUM per lb.	12	0	••	$\frac{26}{240}$	0 0	10.		••	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FRUI	on's Blood, lp. p. cwt. TS AND SEEDS (see als	100 10 Se		and			10.		••	101 0
	se, China Star per cwt.	87	0	••	0	0	70		••	77 6
Race	Spanish, &c. ,,	33 3	$\begin{array}{c} 0\\ 6\end{array}$	••	49 4	0 6	20		•••	
	ns, Tonquinper lb. lamoms, Malabar	0	0	••		v				
	, ,,	8	0	••	9	6	6		••	7 0
	inferior,, Aleppy,	33	9 6		$\frac{7}{8}$	6 3	2		•••	$\begin{array}{ccc} 5 & 10 \\ 6 & 8 \end{array}$
	Madras ,	ĭ	Ğ		6	0	2	8		4 6
~	Ceylon ,,	2	6	••	5	6	2		••	4 2
Cass	sia Fistulaper cwt.	$\frac{25}{8}$	0 6		35 9	0 0	50		•••	$\frac{57}{9}$ 0
Colo	cynth, apple per lb.	$-\tilde{0}$	11		ĭ	8	i			1 19
Crot	ton Secus per cwt.	50	0	••	52	6	2:		••	33 0
Cub	ebs,,	8) 33	6 0	••	9) 41	0	30		•••	$ \begin{array}{c} 0 & 0 \\ 5 & 0 \end{array} $
Fen	ugreek "	- 9	0	•••	13	õ	t	6 0		8 0
Gui	nea Grains 🚬 🙀	35	0	••	33	0	3		••	0 0
Jun Nuv	iper Berries ", vomica "	0 8	0		0 10	0	27		••	60 100
Tan	narinds, East India,,	11	0		16	0	12	0	•••	19 0
	West India ,,	11	0	••	21	0	20		••	28 0
van	illa, large per lb. inferior	$\frac{25}{10}$	$^{0}_{6}$	•••	$\frac{39}{24}$	0 6	19		••	25 0 18 6
GINGE	r, Preservod ,,	0	63		0	71	(06
Номе	v, Chili per cwt.	6)	0	••	63	0	30		••	36 0
TRECA	Jamaica ,, CUANHA per lb.	35 4	$\frac{0}{9}$		$\frac{55}{5}$	$\frac{0}{3}$	34			
ISING	LASS, Brazil ,,	2	7		5	2	1	6		53
	Tongue sort ",	$\frac{2}{1}$	9	••	5 4	$\frac{4}{10}$			••	5 5 4 10
	East India ,, West India ,,	3	0 0		44	10	1		•••	4 9
	Russ, long staple	6	0		10	6	(5 0		10 6
	,, inferior ,, Simovia	$\frac{0}{2}$	0	••	0	0 6			**	$\begin{array}{ccc} 0 & 0 \\ 2 & 6 \end{array}$
JALAT	, simovia	1	0	•••	1	3	(•••	1 1
	infer. & stems "	- 0	10	••	0	11	(93	••	0 10
LEMON	N JUICE per degree JUICEper gall.		$\frac{03}{2}$	••	0	$\frac{1}{6}$	0		••	0 11 1 8
LIQUO	Duce, Spanish per cwt.		õ	•••	36	0	(0 (00
Liqu	uorice Rcot "	2)	0	••	3)	0	(••	0 0
MANN	A, flaky per lb. , Pod per oz.	$0 \\ 16$	0	••	0 60	0	1		•••	
	Grain,	30	0	••	68	0	47		•••	55 0
	(see also separate list)					0		0		0 0
	tor, 1st pale ,,	2	0 4	•••	0	$\begin{array}{c} 0 \\ 5 \end{array}$	1			$ \begin{array}{ccc} 0 & 0 \\ 0 & 5 \\ 1 \end{array} $
	second "	0	4		0	43	() 4 <u>1</u>		0 45
	Liver per gall.	3 0	- 6	••	5 0	6		: 6	••	4 6 0 0
Cro	ton per oz.	0	0	••	0	0	,) 21/2	••	

THE CHEMIST AND DRUGGIST.

[February 14, 1880.

82 13	HE UIIEMINI		[Fernary 14, 1880.
1880,	1879.	1880.	1879.
E Essential Oils: $s. d. s. d.$	s. d. s. d.	Oils, continued :- £ s. £ s.	£ s. £ s.
Almond per lb. 30 0 to 0 0	20 0 to 0 0	BODY per tun 0 0 to 0 0	0 0 to 0 0
Anise-seed ,, 80 83	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	COD	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	WHALE,SouthSea,pale ,, 26 0 0 0 yellow ,, 25 0 0 0	
Cajeputper bottle $4 \ 0 \ \ 5 \ 4$ Carawayper lb. $7 \ 0 \ \ 7 \ 6$	0 0 0 0	brown ,, 20 0 21 0	$26 0 \dots 0 0$ $23 0 \dots 21 0$
Cassia	2 10 3 0	East India, Fish , 0 0 0 0	0000
Cinnamon per oz. 2 0 4 0	4 0 5 0	OLIVE, Galipoli per ton 0 0 0 0	0000
Cinnamon-leaf $0 1\frac{1}{2} 0 1\frac{1}{4}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Gioja, 46 0 0 0 Levant 45 0 0 0	
	9000	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Clove	$0 2\frac{1}{2} = 0 3$	Spanish ,, 45 10 47 10	
Lavender Exot rer lb. 1 4 7 3	1 8 7 0	Sicily 1 45 10 0 10	0 0 0 0
Mitcham ,, 110 0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	COCOANUT, Cochin ,, 37 0 39 0 Ceylon 34 10 35 0	44 0 45 0
Lemonsrass \dots reference 0 4 \dots 5 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Ceylon ,, 34 10 35 0 Mauritius ,, 36 0 0 0	39 10 0 0 39 0 0 0
Lemongrass per oz. 0 4 0 0 Neroli	3 0 6 6	GROUND NUT AND GINGELLY :	
Nutmeg	0 3 0 4	Bombay	0000
Orange	5 0 7 0	Madras	0 0 0 0
Otto of Rosesper oz. 15 0 23 0 Patchouli 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	PALM, fine	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Patchouli " 0 0 0 0 Peppermint :		RAPESEED, English, pale 30 15 0 0	$31 \ 15 \ \ 32 \ 0$
Americanper lb. 13 0 15 0	8 0 12 0	brown 25 15 30 0	29 15 30 0
(H. G. Hotchkiss),, 15 6 0 0	0 0 0 0	Foreign, pale 0 0 0 0 brown 0 0 0 0	0 0 0 0
Ènglish ,, 59 0 0 0 Japan 10 0 13 0		brown 0 0 0 0 COTTONSEFD 28 0 29 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Japan ,, 10 0 13 0 Rosemary ,, 1 3 2 5		LARD 42 0 41 0	
Sassafras , 2 10 3 0	2 0 2 3	TALLOW	31 0 35 0
Spearmint	8090	s. d. s. d.	s. d. s. d.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	TURPENTINE, American, cks. 32 6 0 0 French ,, 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
a service a service servic	15 0 17 0	PETROLEUM, Crude 0 0 0 0	
OPIUM, Turkeyper lb. 16 0 17 6 inferior, 13 0 15 6	13 0 14 6	refined, per gall, 0.515 , 0.6^{-1}	$-0.8\frac{1}{2}00$
QUASSIA(bitterwood)perton 0 0 0 0	100 0 130 0	Spirit 0 $7\frac{1}{4}$ 0 0	1 0 1 2
RHUBARE, China, good and		CANARY	46 0 56 0
fine	1 9 3 6	CARAWAY, English per cwt. 0 0 0 0	0 0 0 0
Mid. to ord, 0 8 1 8 Dutch Trimmed, 0 0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	German, &c 27 0 33 0	0 0 0 0
	90 0 KO 4	CORIANDER 16 0 22 6 HEMP	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
ROOTS—Calumbapercwt. 40 0 56 0 China	20 0 27 0	LINSEED English , 60 0 68 0	39 0 44 0 60 J 68 0
Chiretta per lb. 0 $2\frac{1}{2}$ 0 4	0 0 0 0	Black Sea & Azof 54 6 55 0	48 6 0 0
Galangal per cwt. 21 0 22 0	21 0 23 0	Calcutta ,, 56 0 0 0	48 0 49 0
Gentian	$18 0 \dots 20 0$ $20 0 \dots 45 0$	Bombay ,, 57 0 0 0 St. Petisbrg. ,, 53 0 54 0	49 6 0 0
Orris	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mustard, brownper bshl. 12 0 16 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Pinkper lb. 0 8 1 3	0 0 0 0	white ,, 50 100	9 0 12 6
Rhatany, 0 5 0 6	0 2 0 5	POPPY, East India, per qr. 51 0 52 0	50 6 0 0
Seneka, ,, 2 11 3 6 Snake 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SPICES.	1
,,,	00 0	CASSIA LIGNEA per cwt. 46 0 55 0	39 0 50 0
SAFFRON. Spanish, 35 0 46 0 SALEP per cwt. 120 0 160 0	$120 0 \dots 40 0$ $120 0 \dots 150 0$	Vera	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
SARSAPARILLA, Lima per lb. 0 5 0 6	0 4 0 5	CINNAMON, Ceylon:	53 0 54 0
Guayaquil	1 1 1 5	Ist quality per lb. 1 6 3 5	1 4 3 3
Honduras 1 2 1 10 Jamaica	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2nd do	1 2 2 4
Jamaica	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3rd do. 1 3 1 9 Tellicherry 0 0 0 0 0	$1 1 \dots 1 8 \\ 1 6 2 4$
SCAMMONY, Virgin per lb. 30 0 36 0	0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
second & ordinary ,, 10 0 25 0	0 0 0 0	CLOVES, Penang ,, 1 8 1 11	$1 7\frac{1}{2} 1 9$
SFNNA, Bombay ,, 0 0 0 0 Tinnivelly 0 3 0 101	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Amboyna, 1 4 1 6	1 4 1 6
Tinnivelly " 0 3 0 101 Alexandria " 0 3 1 3	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Zanzibar	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
SPERMACETI, refined , 1 3 0 0	1400	Ord. to good , 60 0 105 0	90 0 205 0 52 0 89 0
American 1 1 1 0 0	$1 1 \dots 0 0$	African	21 0 12 0
Squills, $0 \ 1 \ \ 0 \ 2\frac{1}{2}$	0103 £s. £s.	Bengal, 20 0 21 0 Malabar	16 6 18 6
GUMS. £ s. £ s. AMMONIACI dropper cwt. 1 12 2 0	£ s, £ s, 2 0 , 2 2	Malabar	
ANIMI, fine washed 19 0 23 0	13 16 15 0	PEPPER, Blk, Malabar, perlb. 0 41 0 43	0 4 0 4
sorts ,, 13 0 16 15	$9 0 \dots 12 0$	Singapore, $0 4\frac{1}{2} 0 4\frac{3}{2}$	$0 3\frac{1}{4} 0 3\frac{1}{2}$
and bio, part picket "" 3 0 " 310	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
srts.,md.tofir. ,, 2 0 2 18 TURKEY,pick.gd.tofin. ,, 7 0 10 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MACE, 1st quality, 1 7 3 0	1 8 2 6
second & inf. ,, 3 10 5 10	3 5 5 5	2nd and infer or , 1 2 1 6	1 0 1 7
sorts ,, 2 10 3 2/6 Assafetida, cm. to fin ,, 0 12 3 12	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	NUTMEGS,78to60tolb.,, 3 11 4 9 90to80 ,, ,, 3 2 3 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Assafœrida, cm. to fin ,, 0 12 3 12 Benjamin, 1st & 2nd ,, 15 0 45 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$90 to 80$,, ,, $3 2 \cdot \cdot \cdot 3 10$ $132 to 95$,, ,, $2 4 \cdot \cdot \cdot 3 1$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
s. d. s. d.	s. d. s. d	PIMENTA 0 41 0 45	0 5 0 0
COPAL, Sierra Leone, per lb. 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	VARIOUS PRODUCTS.	
Manillapercwt. 38 0 65 0 DAMMAR, pale ,, 100 0 117 6	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	COCHINEAL-	
DAMMAR, pale ,, 100 0 117 6 EUPHORBIUM ,, 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Honduras, blackper lb. 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
GALBANUM per lb. 0 6 1 2	0 0 0 0	,, silve r ,, 0 0 0 0 Mexican, black ,, 3 1 3 2	
GAMBOGE, pckd. pipe per cwt. 300 0 400 0	2(7 6 275 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 1 0 0
GUAIACUMper lb. 0 8 2 1 KINOper cwt. 60 0 100 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Tcneriffe, black, 3 1 3 8	2 1 . 2 11
KINO	20 0 45 0	, silver, 3 0 3 2	$2 1 \cdots 2 0$
selected ,, 125 0 220 0	122 6 172 6	SOAP, Castile per cwt. 30 0 0 0 SOY, China per gall. 2 10 3 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
MASTIC, picked per lb. 3 6 4 6 MYRRH, gd. & fine per cwt. 180 0 210 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	TERRA JAPONICA—	
MYRRH, gd. & fine per cwt. 180 0 210 0 ord.to fair , 100 0 175 0	150 0 170 0 65 0 142 0	Gambier per cwt. 18 9 19 6	
CHIPANUM p. drop ,, 72 0 73 0	59 0 66 0	Free cubes , $21 \ 0 \ \ 24 \ 0$ Cutch , $35 \ 0 \ \ 41 \ 0$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
amber & ylw. , (8 0 71 0	40 0 53 0	WAY Pope Fuglish (0. a) as	£0 0 0 0
SENEGAL " 57 6 60 0 SANDARAC " 70 0 110 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Jamaica ,, 60 70	7 0 7 10
SANDARAC	73 0 87 0	Last India, 5060	6 0 6 10
Liver ,, 145 0 170 0	67 0 73 0	VEGETABLE, Japan ,, 4 0 4 5 WOOD, LYE, Barperton 5 0 5 2/6	0 10 × 15
THUS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WOOD, DYE, Barperton $5 0 5 2/6$ Brazil	0 0 . 0 0
TRAGACANTH, leaf ,, 200 0 260 0 in sorts ,, 40 0 180 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Cam, 13 0 26 0	18 0 28 0
OILS. £ s. £ s.	£ s. £ s.	Fustic, Cuba ,, 0 0 0 0	8 0 8 10
SEAL, pale per tun 20 0 0 0	28 0 0 0	Jamaica ,, 5 10 6 0 Logwood, Campeachy,, 8 10 9 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
yellow to tinged ,, 27 0 29 10	25 0 27 0	Jamaica	5 10 5 15
brown ,, 25 0 0 0	24 0 0 0	LIMA, first pile ,, 14 0 16 0	9 0 11 0
SPERM	60 0 0 0	RED SANDERS , 6 10 6 15	6 10 7 0



Correction .- In our last number, 'under the title " Poisoning hy Aconite Root" (page 24), we quoted from "an excellent paper by Prefessor Redwood," published in 1853. The author of the paper referred to was Professor Bentley, not Professor Redwood.

88/20. Cod-liver Oil Emulsion .- J. E. S .- " Could you oblige by sending me a good recipe for making cod-liver oil emulsiou?" See THE CHEMIST AND DRUGGIST, 1874, p. 139 (ferruginous syrup and emulsion); p. 332 (emulsion); 1875, p. 436 (emulsion with caleium hypophosphite); 1877, p. 376 (permanent emulsion "used for several years"). L. von Cotzhausen communicated a paper on cmulsions to the American Journal of Pharmacy, June, 1878, p. 284. The following selections from his results refer to cod-liver oil :- Oil, 4 drachms; gum arabic, 4 drachms; water, 3 or 4 drachms; the oil and water poured on the gum in a mortar, triturated well for some minutes, and diluted with water to 5 oz, formed a good emulsion, which remained unchanged for six weeks at a constant temperature of 76° F. Cod liver oil, 4 oz.; sugar and gum arabic in powder, of each ½ oz.; winter-green oil, 26 min.; peppermint oil, 6 min.; distilled water, 4 oz.; make a thick mucilage with the gum, sugar, and a small quantity of distilled water, then gradually and cirefully, with constaut trituration, add the mixed oils alternately with the rest of the water. Two ounces of syrup of ealeium lactophosphate or syrup of hypophosphites makes "emulsion of cod-liver oil with hypophosphite, &c."

McElenbie's improved formula for glyconated emulsion of cod-liver oil is as follows :- Prepare glyconin by thoroughly triturating in a half-gallon mortar, 9 drachms each of glyceriue and yolk of egg ; then add I drachm oil of bitter almonds, and again triturate till the mixture thickens and becomes creamy yellow. Then prepare a solution of strychnia by dissolving I grain strychnine sulphate iu 2 cz. water and 4 cz. Jamaica rum. Now add 8 fl. oz. of eod-liver oil very slowly to the glyconin, preferably by dropping from a vial, with constant trituration and occasional addition of the strychnine solution. When finished, and the air bubbles have escaped, the product will measure about 20 oz. It is obvious that any or no medicine may be substituted for the strychuine. Mr. Close 1 egards the quantity of oil of bitter almonds as unnecessary and too large in every case.

88/22. Veterinary Works .- J. J. J.- The following are some recent veterinary works which have been well spoken of :- Dalziel, H., " Diseases of Dogs: their pathology, diagnosis, and treatment, to which is added a complete dictionary of canine materia medica " London : Bazaar Office, 1879, 8vo, 1s. Dalziel, H., "Diseases of Horses, &c.," ibid., 1s. 6d. Law, J., "The Farmer's Veterinary Adviser : A Guide to the Prevention and Treatment of Disease in Domestic Animals," with numerous illustrations. Edinburgh: Jack. London: Simpkin, 1879, 8vo, p. 420, 12s. 6d. Mayhew, E., M.R.C.V.S., "The Illustrated Horse Doctor, containing an accurate and detailed account of the various diseases to which the equine race are subjected, together with the latest mode of treatment, and the requisite prescriptions in plain Englisb," 1876, 8vo, 18s. 6d. Others might be mentioned, but some of these will probably suffice.

J. J. J. writes, also, "Can any of your readers oblige me with a formula for tooth-wash, similar to floriline? The one given ast month (page 13, column 2) does not give so good a foam, and is not so aromatic."

Will not difference in the quality of the ingredients explain this? Experience in the selection and treatment of the bark, and liberality in buying high-priced aromatics greatly influence toilet articles. Perhaps some reader can enlighten us.

82/1. W. R. H.-Blue-black Writing-ink (suitable also for copying). -- In THE CHEMIST AND DRUGGIST for June, 1872, p. 188-190, will be found an article by Archibald Paterson on "Our Writing Fluids." We reprint from it the following formula, which had been printed and circulated some years previously by an Edinburgh gentleman as that from which Messrs. Duncan, Floekhart & Co. made their celebrated blue black ink :-

Blue Aleppo galls (fro	e fron	ı insec	t perfe	ration	·)	41 OZ.
Bruised cloves						1 drachm
Cold water						40 oz.
Purified iron sulphate			••			1 <u>1</u> oz.
Pure sulphuric acid (••		35 minims
Eulpbate of indigo (in	the fe	orm of	a thin	nish p	aste,	
which should be ne	utral	or nea	rly so)	••		1 oz.

Place the galls, when bruised, with the cloves in a 5'-oz. bottle, pour upon them the water, and digest, often shaking, for a fortnight. Then filter through paper into another 50.oz. bottle, and wring out the remaining liquor through a strong elean linen or cotton cloth into the filter, in order that as little as possible be lost. Next put in the iron, dissolve completely, and filter through paper." Add the acid and agitate briskly, then the

* We suspect that this filtration should be delayed till the acid and indigo have been added.

indigo, and mix thoroughly hy shaking. Pass the whole through paper, filtering from one bottle to the other till the operation is completed. The weights used are avoirdupois ; the measures, apothecaries'.

On no account must gum or sugar he added or the acid omitted. When intended for copying the proportion of galls is 53 oz. The following points should be noted :- (1) The cold maceration ; (2) the absence of gum; (3) the use of sulphate of indigo, which is a solvent for the black precipitate of tanno-gallate of iron, dispensing with gum, which is only used to suspend this; (4) the deficiency of iron, the pure sulphate being used ought to coutaiu uo oxide, so that all the iron is free to combine with the astringents; (5) the use of free sulphuric acid, generally considered detrimental, but certainly added here for a purpose. (Perhaps to make the writing more permanent.)

108/27. Dandelion Coffee and Cocoa.-Ignoramus.-Dandelion coffee is said by Cooley to be made of dandelion root sliced, dried, roasted, and ground with a little caramel. See also Lehmann, Karl, Fabrikation des Surrogatkaffees und des Tafelsenfs : enthaltend die ausführliche Beschreibung des Zubereitung des Kaffees und seiner Bestandtheile; der Darstellung der Kaffec-Surrogate aus allen hierzu verwendbaren Materialen; und die Fabrikationen aller Gattungen von Tafelsenf. Wien, A. Hartleben, 8vo, price 2s. We suspect that dandelion coffee and eocoa are in osme cases only so in name.

27/108. Ignoramus.- Indian Cerate.- This is an ointment resembling spermaceti ccrate in appearance, and much sold in the Potteries. Can anyone supply us with its formula?

Cold Cream without fats .- Vigil .-

1u	Oreann min	1040 1	6L.J.	reyce						
	Mucilage of q	uince	•••	••	••		•••	• •	4	
	Almond soap			••	••	• •			1	
	Stearic acid	••	••						10 -	
	Glycerine								2	
						Réper	tvire a	es Pl	arma	cie.

This would probably be less likely to change than ordinary forms. It is clear that a fatty mixture must be softer in summer than in winter, and most chemists meet this difficulty by increasing the proportion of wax in their cold cream as the weather grows warmer. The addition of a small proportion of benzoic acid (1 dr. to 1 lb.) renders the product less liable to rancidity, and, if acid made from benzoiu be usel, forms a good basis for the perfumes.

Vigil asks if anyone can supply him with a form for making Pink Oils - a valuable pre. aratiou.

13/111. Cheque.- A paid cheque to B for 101.; a year afterwards A notified B that the cheque had not been presented. The cheque payable to B or order may have been misplaced or paid away, it being B's practice to pay cheques as cash. B requests a second payment. Can be enforce it? What position would A be in if it should prove that the first cheque had been paid to C? Could C claim from A, two years having elapsed?

The cheque should have been presented "within a reasonable time," and the lapse of a year would certainly be more than a reasonable time. B could not, we think, enforce a second payment under the circumstances. He had given a receipt and has probably had value for the cheque. Accordiug to his own statement the cheque unay be still travelling, aud may be brought forward at any day against A. C, with the cheque, would certainly have a strong claim against A, and though B may offer to give A an iudemnity, A can hardly be compelled to take it. This, we should add, is not a counsel's opinion, and we would hardly like our correspondent to rely too much upon it.

65/89. Inquirer .- Patent Medicine Licences .- A patent medicine dealer, with one or more shops in different localities, is not required to take out more than one licence. It is the person who is licensed, not the shop.

PHARMACY IN INDIA.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

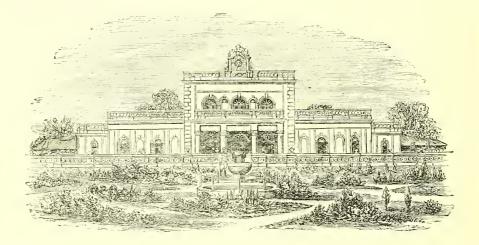
CALCUTTA, December 29, 1879.

SIR,-Jubbulpore lies midway between Bombay and Calcutta, and on account of its central situation is the site of a large camp. From a naturalist's point of view it is exceedingly interesting, as here for the first time I saw alligators, vultures, an I jackals in their wild state. Your subscriber, Mr. Lindsay, is, however, its sole representative in the science of pharmaey.

Allahabad bas a considerable European population, and four pharmacists are here making their fortuues, in which pursuit they gain pousiderable assistance from the pages of THE CHEMIST AND DRUGGIST. As all these already su'scribe to your journal, my attention was turned to the native dealers in drugs, two of whom who understood English were glad to have their names added to your list, but the shortuess of my stay-one day -prevented my seeing any more.

Calcutta, the cipital of India, contains-if the suburbs are included-1,000,000 inhabitants. It is, therefore, no "mean city," and its European population would propably nearly equal that of all the other Indian cities combined. It is likewise by far the most important trade centre, 1 oth European and native. Here are to be found about a dozen English firms following the profession of pharmacy, and all taking in, and, I am happy to add, sedulously reading, THE CHEMIST AND DRUGHIST. On one occasion, wishing

to borrow a recent number, I called on two subscribers and found both had taken their copies home to read ! Therefore your position, so far, could not be bettered ; but with regard to the native element, there is a grand future before you. You will bave gathered from my former letters that there is a perfect mine of wealth, so to speak, unworked, from a journalistic point of view, amongst the native pharmacists of India. I have been impressed with this fact, more or less, ever since setting my foot on shore in Ceylon. Another hest confirmation of it has been the large number of names of subscribers sent to you by each post. But it is here in C doutta that I have first realised the real importance of this new element. The enclosed long list of subscribers very faintly indicates the future eirculation of THE CHEMIST AND DRUGGIST in Calcutta, and not only are the dealers in chemicals and drugs numerically large, but their business is very heavy, as must necessarily be the ease, when it is considered that the practitioners and dealers of this city alone minister to the wants of more than a million of people. I find that their indents on Europe generally range from 5001. to 1,500% each, which will, I think, bear favourable comparison with many home orders. I therefore trust that you will realise the importance of this new element amongst your readers : that I have done so is proved by the euclosed correspondence, &c, by which you will perevive that arrangements have been made to thoroughly work this new ground, and bring the journal under the notice of all the native dealers. It will be no exaggeration to anticipate, in the course of a very few months, an addition to your subscription list of at least 500 names. Most of these are the outcome of English influence, as the vast unijority have studiel and passed their degrees of licentiates in our hospitals here in the manner described in my Ceylon letter. The majority prescribe and dispense their owu medicines, in many cases the prescriber and the dispenser being partners. There are, however, several wholes de dealers also. Ráthái dás Ghosh is a favourable specimen of the rising generation of Hindoos, who has received a gool edumembers of the craft, who wish to subscribe, and E. J. Lazarus & Co., there are none who could be admitted to your list. The firm of Lazarus & Co. who will be recognised as old subscribers, occupy an extensive bungalow. three miles from the native city, but surrounded by the cantonment of the army and the eivil and military inhabitants. As the stores where drugs are dispensed in India are so utterly uulike those at home, I send a drawing of Lazarus's, thinking it will be of interest to your readers. It will be observed that there are no signs of the business, nevertbeless the whole of the centre of the front is occupied by the dispensing department, while, strange to say, the back and one of the wings are devoted to printing. You will readily understand that the pharmaeist in this far-off land is often obliged to deal in other things besides medicines, indeed, with the exception of the largest eities, they always do so, but this is the first instance in which I have found a large dispensing business combined with a large printing-office. Dr. Lazarns, the head of the firm, bas been in India for 40 years, the greater part of which time he has lived at Benares. Originally he was obliged to supply bis own small printing requirements, and gradu illy this business has grown until now he employs a large staff and does everything on the premises except making piper. He also prints in the vernacular as well as English, and has recently produced a dictionary of the two languages, easting his own type, printing and binding the work. In spite of his Eastern name, Dr. Lazarus hails from Carmarthen, and he is, therefore, the second successful Welshman dealing in drugs met with in my travels, The firm have two specialties which appear to bave a good reputation here, viz., essence of chiretta and essence of hemidesmus. The success of this firm has eaused a na ive to open a business combining the two departments, and which he calls the New Medical Press Hall. This geutleman also publisbes a weekly newspaper, of which I send a copy, but whether the unnatural combination will answer as well as that called forth to meet a want remains to be seen.



cation binself, and is anxious that his countrymen should reap all possible advantages from their connection with England. He studied at the Calcutta Medical College, took his degree of licentiate of medicine and surgery, field the office of bouse physician there, and afterwards performed the duties of resident assistant surgeon to the Campbell Hospital.

This gentleman, in the prime of life, is now in extensive practice in Calcutta, and, in conjunction with Messrs, Singho Dop Mallik & Co., pharmaeists, of the same city, is about to commence the publication of a monthly journal, to be ealled the Calcutta Medical News, This journal is intended to reproduce recent improvements and discoveries in medicine, surgery, pathology, materia medica, therapeuties, and all the sections of medical science, so as to enable In lian practitioners to take a view of the monthly progress of practice in Europe and America. The scope of the Calcutta Medical News will not be confined to the reproduction of articles, but it is intended to supply its readers with a knowledge of the indigenous drugs of India, as taught by the Sanserit School of Medicine, as well as their physiological actions and therapentic uses, and generally to treat of Indian drugs. It will also, from time to time, give particulars of such elinical and pathologieal cases of interest as may occur in connection with the hospital and onedoor practice of the more eminent local professional men. In some cases vernacular translations of the abstracts and communications will be appended.

Benares is the most sacred eity of Hindoo land, and as all good followers of Vishnu and Siva believe in the healing virtues of the sacred waters of the Ganges keyond all drugs or therapoutie compounds, it was not to be expected that medical science and the call ng of the pharmacist would flourish here. Such proves to be the ease, both doctors and ehemists and druggists being much below par; indeed, with the exception of the few native

AGRA, January 20, 1880,

Although Allahabad is the capital for administrative purposes of the North-west of India, the cities of Agra and Delhi, the ancient capitals of the country, maintain their pre-eminenes, and both from their position and their accumulated architectural treasures, are never likely to be displaced. From the North-west all initiative seems ever to have proceeded in India. With the exception of our own, the wars of couquest have invariably flown hence, and if ever this Eastern realm is to slip out of our hands, certain it is that the movement will proceed from this region. Even now the eleverest conjurors and natticst Nauteh girls hall from the North-west, while such arts as India possesses, its marble and ivory work, its jewellery, and all its textile manufactures (except plain cotton gool's), its carplets, shawls, and paintings, own the same district for their bone.

I have been led into this train of thought by finding a new movement in progress here which will possess some interest for the readers of THE CHEMIST AND DRUGGIST. I therefore quote in extenso a petition that is being extensively signed for presentation to the Vieeroy :---

The undersigned has the honour to lay before the public of the account anying petition, which is to be presented to His Excellency the Governor-General in Council, and begs their support, to aid him in bringing his project to a snecessful conclusion. It would be waste of time to speak further on the great necessity of faving some Act passed prohibiting the indiscriminate sale of poisonous drugs or compounds. By the passing of such an Act the public would limit the extent of the danger, whilst by arcgleeting such a measure they can never be perfectly confident that they are not being treated to their hurt, or that their requirements are meeting with proper att nition.

The undersigned begs the favour of residents appending their names to the accompanying petition.

J. T. BILNEY, Pharmacoutical Chemist.

HIS EXCELLENCY BARON LYTTON, OF KNEBWORTH, G.M.S.I. VICEROY AND GOVERNOR-GENERAL OF INDIA.

The following Petition of the undersigned Residents of the City and Cantonm-nts of and its neighbourhood,

RESPECTFULLY SHEWETH-THAT.

- I.—It is expedient for the safety of the public who have recourse to druggists or chemists, that persons following such occupations should have an intimate knowledge of the drugs or medicines that they deal with, as men using such compounds may through their ignorance cause grievous danger to their patients; and to that end persons not already engaged in such occupations shoult, before commencing business, he duly examined as to their practical knowledge, and a register of their names should be kept; and also an Act should be passed, initial AN ACT FOR REGULATING THE QUALIFICATION OF PHARMACETICAL CHEMISTS, to be hereinafter described as the PHARMACY ACT.
- II.—Any person who, at the time of passing this Act, has not passed any such examination, hut can satisfactorily prove that he has been three years actually engaged and employed in the dispensing and compounding of prescriptions, as an a-sistant to a pharmacentical chemist, should, on passing such a modifiel examination as the Board (hereinafter provided for) may order, be registered as a chemist and druggist under this Act.
- EII.—For the efficient working of such an Act your petitioners pray that there be three Boards, which shall be endowed with power to pass persons after examination to enable them to pursue the avocation of a clienist or druggist; and that these Boards should hold their examinations once a year, in Calcutta, Allahabal, and Labore. Such an Act has been passed at home, and subsequently was extended to the colonies, therefore the undersigned beg that immediate attention be grantel to the subject, and that an Act entitled the "Pharmacy Act" he speedily brought into law, having for its provisions the restriction of the sales of drugs, compounds, or poisons, by ine ampetent persons.

Your petitioners as in duty bound will ever pray.

Mr. Bilney, of the firm of John & Co., of this city, seems to have taken the initiative in this matter, and although I cannot think that India is at present prepared for such an act as he proposes, still nothing hut good can come of its discussion, and everyone must wish him Golspeed in his laborions and spiritel undertaking. Mr. Bilney is a member of the Pharmaceutical Society and member also of the Victoria Pharmaceutical Society, in which capacity he gets from our Antapodes THE CHEMIST AND DUCGGIST as pubfishel there, together with the local supplement, which the Australian Society binds with your journal, and sends to all its members.

The pharmacists of the North-West of India, though humerically small, prove to be a very active body. Nowhere have I found more energy, or better stocked stores. Here especially, where it has two representatives, does this remark apply, and a large and increasing business is heing transacted by both firms, their purchases heing mainly procured from advertisers in your journal.

Delhi would seem to present a good opening for a really first-class pharmacist. The business there is principally in the hands of the natives, who no doubt possess the confidence of their own peeple, and with the aid of your journal will now become better acqu inted with the markets. There is only one other chemist and druggist there.

Your ROVING CORRESPONDENT.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

DEAR SIR,—Lest many of your numerons readers should derive some erroneous impressions from your Indian Correspondent's letter in your last issue, I think it desirable to mention, as one who has assisted Mr. Phillips, of Poona, in his bosinets, that the branch shop in the dense native quarter described therein contains as many good shop bottles as some dispensing establishments at home, and that Mr. Phillips is only enabled to do the large dispensing business mentioned at this branch, by means of Lis connection and influence at his principal establishment in the camp, which is second to none in Poona, and for which he is now building new and extensive premises.

I am, dear sir, yours respectfully,

J. Collishaw.

6 Evershot Road, Tollington Park, N., Fehrmary 11.

December 29, 1879.

J. G.-Mayer's Reagent is used for the quantitative estimation of alkaloids. It consists of 13 516 grammes of mercuric chloride, and 49 8 grammes of potassismi iodide in a litre of water. Each centigramme of this solution precipitates '0167 gramme of strychnine ; '0233 gramme of brucine; '0108 gramme of quinine, and so on. The final reaction is found by filtering from time to time a drop on a glass plate, resting upon a blackened surface, and adding the test until no precipitate appears. The results are only accurate when the strength of the solution of the alkaloid is about 1 : 20.

81/70. Student.—It is impossible to make turpentine incombustible without first destroying it. John Lizar's "System of Anatomical Plates" was published in Edinhurgh, 1822-26; 101 plates and text, 7 guineas; plates coloured, 12 guineas. This has heen resold at 52x. 6d., and a coloured copy at 51, 15x. 6d. A "new and considerably:improved edition," 101 coloured plates, royal folio, was published at the same price at Edin.

hurgh in 1841; it has been resold at 5 k. The formula of the powder you send could only be discovered by a complete analysis, which would cost you 2 to 5 guiness. If you will tell us for what purpose it is required we will endearour to supply you wich a substitute. All questions relating to registration are entirely within the jurisdiction of the Pharm centical Council. There is no appeal, and hardly any criticism possible. In the ease you mention only the formality of the certificate was questione 1, and the Conneil has decided according to equity, though perhaps not strictly according to law.

POTASSIUM BICHROMATE A POISON.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

SIR.—In the Jannary number of THE CHEMIST AND DRUGGIST you give extracts of a case of poisoning by potassium bichromate recorded by me in the *Lancet* of September 27. I see in the *Lancet* of January 31, 1880, another similar case. I have been informed that in the "Melical Digest" several cases are recorded, so that apparently it is getting well known as a poison, and is used intentionally, as in the case recorded recently in the *Lancet*. As such, my object in writing to you is to see if steps cannot be taken to induce the Pharmaceutical Society to place it on the list of poisons. Under the present syst m any person can obtain large quantities not only at a chemist's, but at any oil shop, by simply asking for it.

A. DUNBAR WALKER.

56 Ladbroke Grove Road, Notting Hill, W., January 81.

HOMER'S MEDICAL KKOWLEDGE.

Last month we commonted very briefly on a study on "Homer's Medical Knowledge," which had appeared in the *British Medical Journal* from the pen of Dr. Henry Danbar, anthor of a "Concordance to the Odyssey." That gentleman, writing from Boseobel, Gareloch-head, thus alludes to our criticism :—

You state that "We see nothing very wonderful in the fact that Homer knew the Greek names for the belly, the hair, the eye, or the lung, though the names look scientific enough." What I wrote implied that Homer not only knew the Greek names for the belly, &c., but that he was the *first* to apply them to the different organs of the hody, which names have held their place from his time down to the time of Hippecrates, Galen, and down to our own day. If Homer never saw the interior of a "corpus humanum," is it not very wonderful that he should give the exact names describing exactly in their meaning organs of the body he never saw? I think it is,

61,89.—*Net Desperandum* has some discoloured cod-liver oil, which he wants to bleach. He has tried animal charcoal, but with no good result. Car any practical pharmaceutist help him? **Worm Cakes.**—The following is a formula given hy Beasley:—Calomel, 20 grs.; jalap, 1 drachm; ginger, 2 scruples; sugar, 1 oz.; chnab.r to colour; syrup, q.s. to form 10 cakes.

25/113. 17. 4.—We published the analysis you refer to in February, 1869, hut the number has long heen out of print. The bottle contained 8½ fluid ounces of a colourless fluid with a yellowish grey powder, the latter consisting of sulphur with a trace of carbonate of lead, the solution containing acetate of lead and glycerine. Analysis indicated 75-6 grains of sulphur and an amount of lead equivalent to 87 grains of the acetate.

PRELIMINARY EXAMINATION.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

Sin, - Pardon me for encroaching on your time and space, but really I cannot refrain from making known my opinion in regard to the above. It is ridicalous to think that anyone e and write out so harge a paper in three hours without even a piece of blotting paper under the examination paper. Nothing but the hard table under it is really scandalous. I hope the Board of Examiners will take it into consideration, and in future supply something to put onder our paper, and that poor souls, like myself, who are not good hands at the peu will get balf a chance.

I am, dear sir, yours, &c.,

AN APPRENTICE.

P.S. I am not sure whether it is the Board of Examiners or the Pharmacentical Societ/ that have to do with it.

 $108/21^*$. Taraxacum Coffee, according to J. R. Jackson, of Kew, is largely used in India, and is there made as follows :—Fresh dandelion roots are washed, dried in the sun, and cut up into small pieces, after which they are roastel like true coffee; they are then ground, and to every 9 oz. of coffee I oz. of the powdered dandelion may be added. These proportions make an excellent and useful beverage.

 $P_{\rm e}$ in 1844, statel that Tarax teum coffee, he had been told, was made of British-grown chicory.

89/2. L. B. N. - Barium in White Lead. -Weigh a portion of the pigment, and transfer it to a tare l filter, wash it with other till the filtrate leaves no oily residue on evaporation; dry filter and all in an a'r-buth at a moderate temperature, and weigh. On deducting the weig't of the filter the percentage of colouring matter in the pigment will be obtained. Transfer the solid matter to a small first, and warm it with di ute nitrie aid; when all action has cease l, filter and wash the residue on the filter till the wash-

I am, sir, yours obediently,

ings cease to affect litmus. Dry and weigh. Any barium sulphate will be left in the residue, which may be examined in the ordinary way. The filtrate may be examined for metals other than lead.

Glycerine Jelly.—A correspondent favours us with the following form for a very clear jelly :—

Glycerine, rosew	ater, of each	••	• •	••	4 oz.	
Ge'atine lozenge	es (Nelson's)	••	••	10	in number.	

Dissolve secundum artem.

Acctum Ipecacuanhæ. – W. H. T. – Two formulæ for this preparation have been published. Ferris & Co., of Bristol, macerate an onnee of bruised ipecacuanha in a plut of dilute acetic acid for eight days express and strain. The product is a bright yellow solation, which deposits no sediment of any kind. Dr. Dyce Dackworth recommends the following :– Macerate an onnee of bruised ipecacuanha with an onnes of acetic acid for 24 hours; pask in a percolator, and pour distilled water gradually over it till a pint of the percolate is obtained. D. se, 10 to 15 minims; as au emetic, $\frac{1}{2}$ oz. The oxymel may be made by mixing a pint of the acetum with 2 lbs. of honey, evaporating to a proper consistence.

R. II.—We think the preparation would be liable. i You 'will get a more authoritative opinion by applying to Somerset House direct. **Eye Oint-ment.**—Many authorities recommend that the rel oxide of mercury ointment should be diluted to the extent named, by Squire, but it is also often appled in a stronger form, as in Singleton's ointment, which is **g** metally regarded as equal in strength to the ointment of the Pharmacor eta.

3/116. A. S. asks ns to decide whether it is legal to sell, as brown vinegar, a mixture of acetic acil, burnt sugar, and water. We cannot take upon ourselves judicial functions, nor dare we assume the tone which is becoming so natural to our friends the aualysts. But we should venture to think that the above compound would be truly enough brown vinegar, and would pass as such before a Bench. It is as well to add, however, that it would not be malt vinegar.

3/113. L. J. H.--Licences for the sale of methylated spirits may be taken by anyone except "distillers, or rectifiers, or dealers in or retailers of beer, spirits, wine, or sweets."

54/88. J. M. P. - Herb Beer (Stomachie Eeer). - Centaury tops, Roman wornwood, bruised gentian, of each 2 oz.; the peel of six Seville oranges; angelica root, 1 oz.; cinnamou or nutmeg, ½ oz.; new ale, 1 gallon. Digest for a few days and strain. One or two wineglassfuls au hour before meals.

52/87. W. II.—Marron Cosmetique.—This is a brown cosmetique, with a rather different shale. The pomade is made by mixing 5 parts of lard and 2 parts of wax, and tinting with finely-levigated sienna brown, instead of frown uniter, which is used for the ordinary brown cosmetic. We cannot give you a formula for Worcester samee. We tried to give one once to a correspondent, and we supplied him with something we had found in an American paper. Messrs, Lea & Perrins said the formula was not e procet, and that the publication of such spurious information was ealculated to do them injury. We made our apology in about half-a-dozen journals. Perhaps you would like to have the formula for the American imitation. Plea e note that it is net Worcester same:—

White vinegar				* *		15 gallons
Walnut and mu	shroom	ketch	p, of	eaelı	••	10 gallons
Ma'eira wine		••			• •	5 gallons
Table salt		••	••			25 lbs.
Cant n soy						4 gallons
Allspice and con	riander	(powd	ered),	of each		1 lb.
Maee and cinna	mon, o	ľ each		••		
Asafeetida		٤ •				į̃ 1b.
Dissolved in bra	andy	•••				l gallon

Eoil 20 lbs. of logs' liver for 12 hours with 10 gallons of water, frequently renewing the water. Chop up the liver, work with the water, strain, and mix with the other ingredients. It is right to state that Messrs. Lea & Perrins o'jectel especially to the intimation that they employed hogs' liver.

85/7. Agricol t.—We cannot explain the discrepancy without more knowledge of the circumstances. Several causes may combine. The two samples may have been taken from different sacks or different parts of the same sack, and this would be quite sufficient to explain it; or possibly you do not calculate the phosphate in the same condition as in the other analysis. It is advisible, when results are so much at variance, to repeat the estimation by a different process. The new volume of Fresenius, we believe, has not yet appeared.

89/20. W. F. W. writes :--" Can anyone give me a form for essence of ginger ale, and also essence of froth or French eream for putting a head on aërated waters, for use, not for sale ?"

Mr. Thresh's paper on soluble essence of ginger will be found on page 371 of our last volume. French cream is made, we believe, by only one firm, and its formula has never been published. We shall be obliged to any correspondent who can throw light on the matter.

88/18. J. McG. & Co, Liverpool.- We have been unable at present to get the information you desire, but we are making further inquiries.

82/33. J. T.—The elemists at Somerset House are employed by the Inland Revenue Department to investigate all chemical questions bearing on the revenue. A great many are employed, and we believe there is no uniform salary. They examine suspected samples of manufactured tobacco, of tea, coffee, and spirits, as sold to the consumer, of methylated finish, and other articles which are liable to be adulterated, or to be below the standard imposed by law.

M-I--A crystalline pomade is generally sold as **Cream of Honey**. That is unade by melting 1 oz, of spermaceti in 8 oz. oil of almonds, but we should hardly care to gnarantee that compound as the "reliable and genuina" eream of honey which you are in search of.

The Good Old Times.—Mr. F. faunders (West Gorton, Manchester) sends us a letter on "Au Evil and its Remedy." He says that "ever since the passing of the Pharmaey Act the drug trade has been at a disadvantage." He then traces the misfortunes of druggists to (a) the bitter ennity of the medical profession, and (b) the dabbling in drugs by grocers and provision dealers. Without troubling himself to show the connections of lis argument, our corre pondent concludes thus :—" The remedy for the evil is very simple, and consists in the *total repeal* of the Pharmaey Act nothing else will do. Free trade in pharmaey and the public will discriminate (as they did before) between druggist, grocers, and slop tailors, but now know that 'chemist and druggist' is little more than an empty title—e-stly to procure, but when got of little use to the owner. Ishalbe glad to co-operate with any of your readers who would like to see the trade restored to its former hononrable position."

89/16. J. J.—The New Pharmacopœia.—It is impossible to say when the new edition of the British Pharmacopœia is likely to be published. The original intention seems to have been to i sue decembial revisions, but as an addendum appeared in 1874, and no steps have been taken to produce its successor, it will probably be many mouths, perbapsyears, before a new edition is published.

89/46. Shorthand. --Pitman, of Paternoster Row, E.C., publishes a sixpenny introduction to shorthand. This gives elementary instruction, and full information as to more advanced books. Cook's "Structural Botany" thoroughly studied would undoubtedly be sufficient for the structural part of the *M* nor examination in botany, but it is impossible to study it thoroughly without comparing and contrasting it with other and larger books. It is always unwise to trust to a single book. Holmes' "Botanical Note-book" and Oliver's "Elementary Lessons in Dotany" are useful for descriptive and systematic botany, and either Bentley's or Balfour's manual should be studied later. Latin and French or German are required for the Bell scholars! ip.

Suum Caique sends a rejoinder to Mr. Stedman's letter in our last, but heturns it into a dissertation on the relative rights of the makers of children'spowders, a dispute which we think may fairly be left to the proprietors themselves, and for which they should pay as an advertisement if they want anything of the kind.

THE PATENT MEDICINE ACT.

Mcs rs. B. Newham & Co., of Castle Hill, Sheffield, write to us, enclosing: a circular which they have prepared, suggested by some recent threatened prosecutions at Sheffield. This circular states that "the Inland Revenue authorities have of late, we believe, inflieted fines, more or less heavy, upon some 15 or 20 druggists in Sheffield alone. One nnfortunite individual informs us that for the beinous offence of selling 22 penny-boxes of pills be has had 2201, demanded from him. Another was fined, we are informed, for selling two pennyworth of white liniment, and others for a pennyworth or two of cough lozenges."

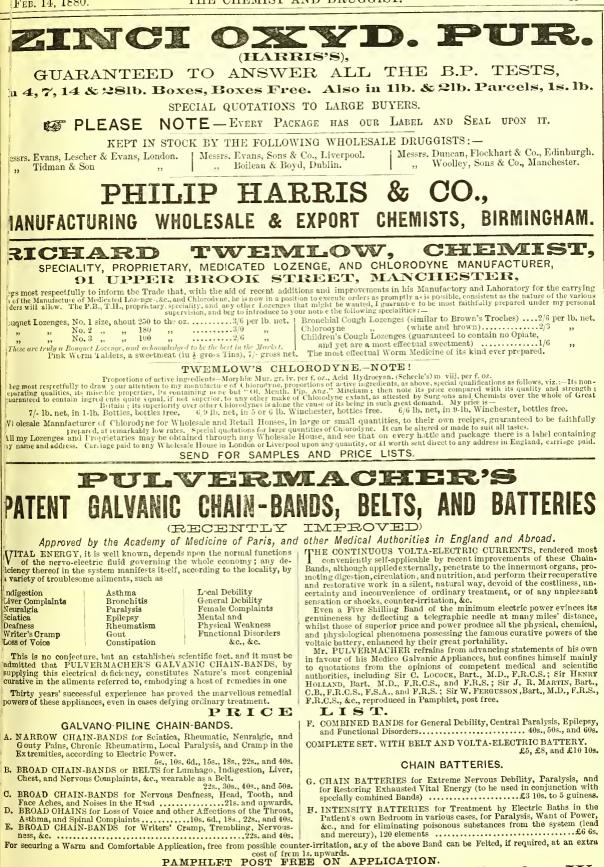
They then quote from the schedule of the Act of 1812 a number of the specially-named medicines which must bear a stamp. These include cephalic snuff, Friars' Balsam, Eau de Cologne, hooping-congh drops, anisced lozenges, ginger lozenges, peppermint lozenges, tir.eture for the teeth and gnms, toothache fluid, &c.

Ginger and peppermint lozenges, as they add, were afterwards specially, removed from the schedule, and also there is a vague exemption of such preparations as "have not been, are not, and will not hereafter be patented, advertised, or held out by lab.ls or handbills, &c., as beneficial."

Our correspondents especially comment on the hardship of enforcing a tax on very small quantities of medicines. This, we are informed, has been done in Sheffield, but we have uot details of the cases, as none came before a court, and no one seems willing to stand forth. Messrs. Newham & Coutherefore arge the advisability of pressing for a new clause to the Act to the effect "that this Act shall not apply to any article sold at a less cost than fourpence."

They ask any person willing to assist, or having any suggestion to make, to oblige by communicating with them.

In their letter to us they say :—"We do not think it of any use waiting for any action of the Pharmaceutical Society : it would simply be postpouing the matter to the 'Greek Calends.' If it is asked why we have taken upon ourselves to move in the matter, we can only reply that we shall be pleased to step down and out whenever anyone else comes forward in our place. We have moved simply because no one else did." **Feb. 14, 1880**.



J. L. PULVERMACHER, 194 Regent St., London, W. A most Liberal Reduction allowed to the Medical Profession, Chemists and Druggists, and Hospitals.

49

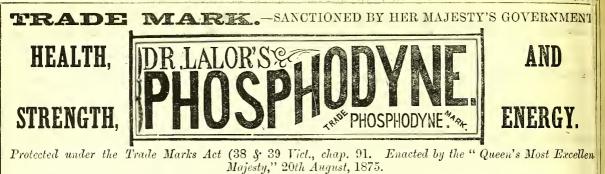
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	Parv. A	eidi Salicylici	3	- 10 .	Parv. FERRI REDACTI			
	Parv. A	eidi Tanniei)	- 20	Parv. Gelsemini RAD.			
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	Parv. A	MMONII CHLORID	1 1	- 10 "	Pare. IPECAC			
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	Parv. A	RNIC.E FLOR.	1	- 5	Parv. Oph			
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	Parv. B	ELLADONNÆ FOL.	1	- 20 ,	Pare, Podophyllini	1-	40	
		ALOMEL	1	- 20 ,	Pare. Potassii Bromidi	. 1.	- 5 .,	
		AMPHORAE.	. 1	- 20	Parv. POPASSII ARSENIT			
	Parv. C	ANTHARIDIS	1	- 50 ,,	Parv. Potassii Nitrati			
	Parv. C.	APSIEI		- 20 ,	Parv. QUINLE SULPHAT			
ł	Parv. D	IGITALIS FOL.	. 1	- 20 ,,	Parv. SANFONINI	. 1-	10 .,	
ł	Q.L	Danak to		N	Th '+ ' Th '+ ' Th	-		



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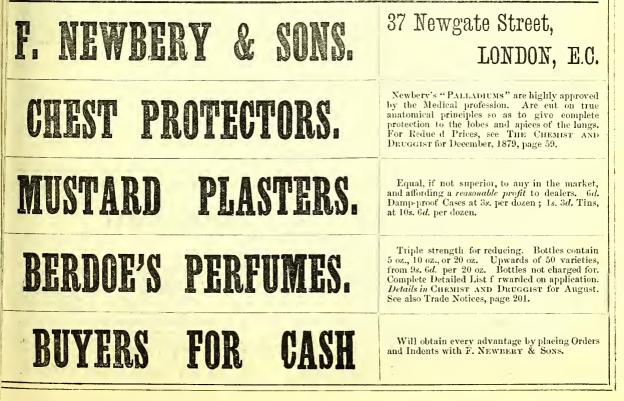
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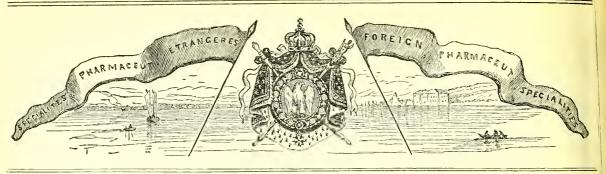
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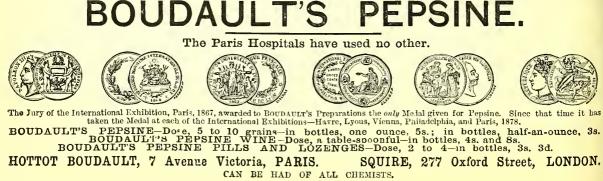
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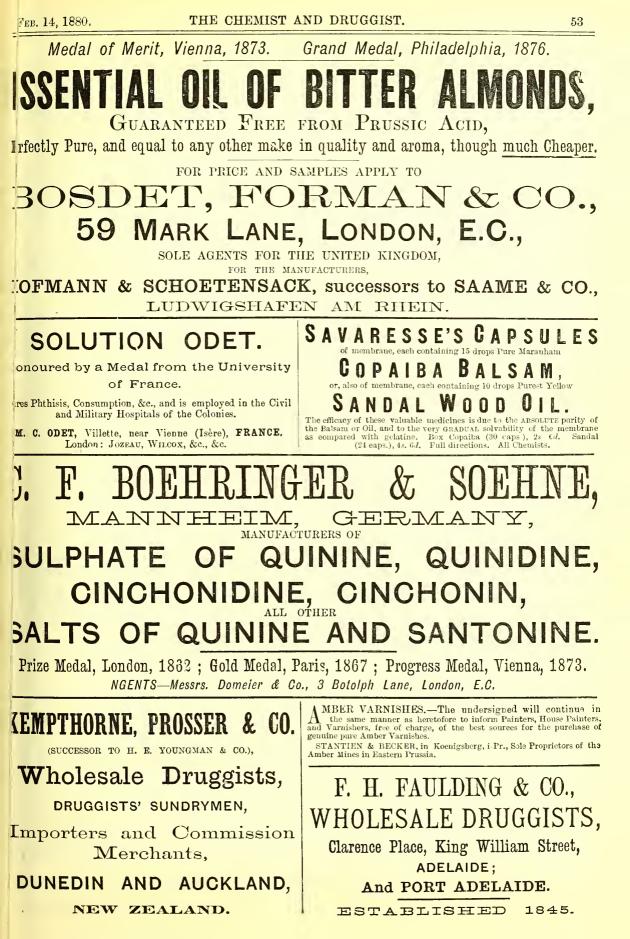
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6/6Bay Rum		2/3Papier Fayard13/	
3/6 Ditto	4,6, ,, ,, Dragées 45/	1/11 Ditto6/6	4/6 " Capsules
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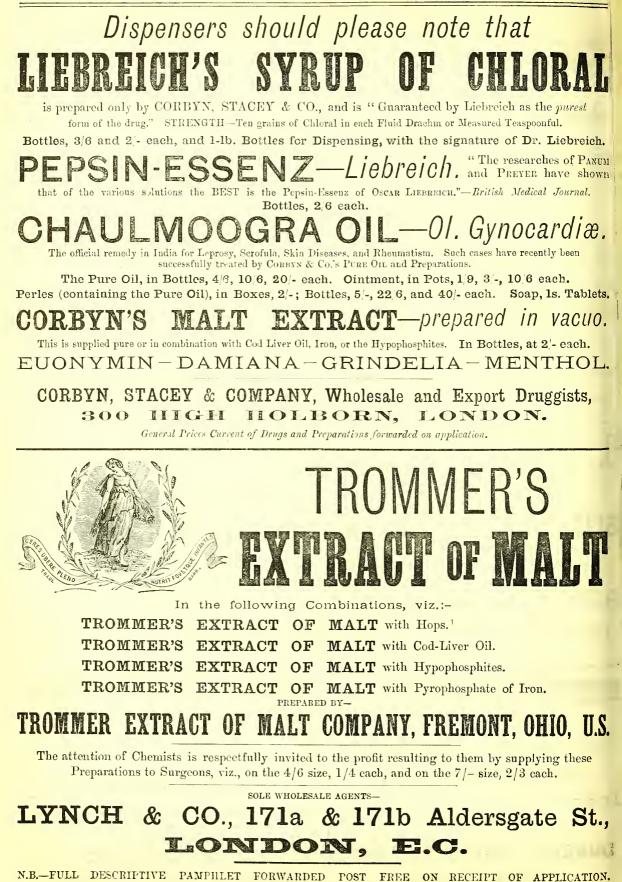
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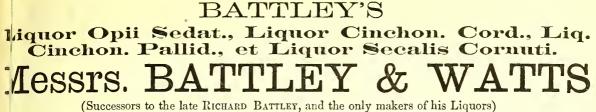
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The following Paper by HENRY DEANE, F.L.S., and HENRY B. BRADY, F.L.S., was read, amongst others, at the Bath Meeting of the British Pharmaceutical Conference, September 1864:-

LiQUOR OPII SEDATIVUS. The striking appearance resulting from the evaporation of Battley's Sedative (Plate III., Fig. 1) first drew our attention to the mode of investigation or described. We have examined it frequently and always have met with the same characters. The slides present an almost opaque mass of crystals of or phine saits and codeine, with a very small portion of narcotine (and meconic acid?), and so far as we have observed, complete absence of resions titer and narceine. Anyone who has studied the microscopic characters of this preparation will readily understand how it has kept its place with the pression in spite of the cheap imitations which have been so largely puffed as substitutes for it. Though we have experimented much with a view to paring a similar liquor, we have not yet arrived at an identical result. Of three makes which we have examined, one (Plate III., Fig. 5) is largely (at III., Fig. 4) gives a few morphine crystals, a good deal of narcotine, and more narceine; a third (Plate III., Fig. 6) is chiefly remarkable for its for descripting crystalline. Ik of everything crystalline.

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LOEFLUND'S EXTRACT, in preference to many others, is not subject to fermentation or deterioration in any climate.

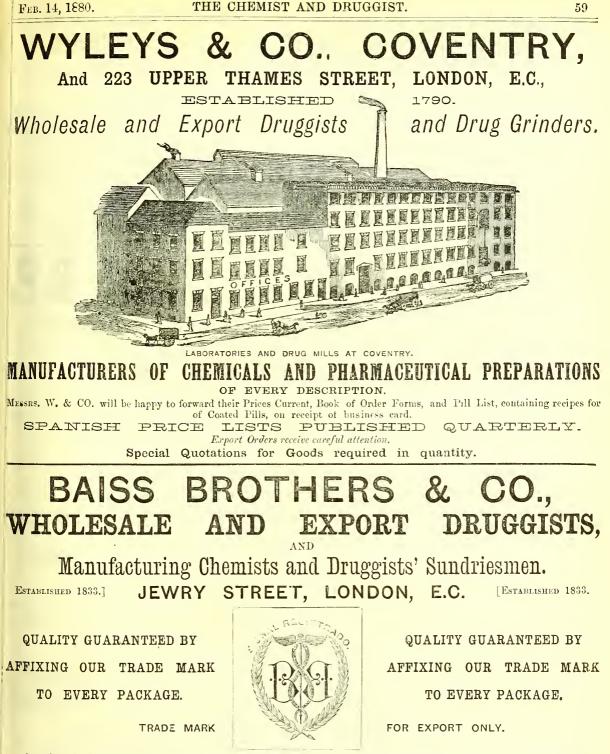
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FEB. 14, 1880.





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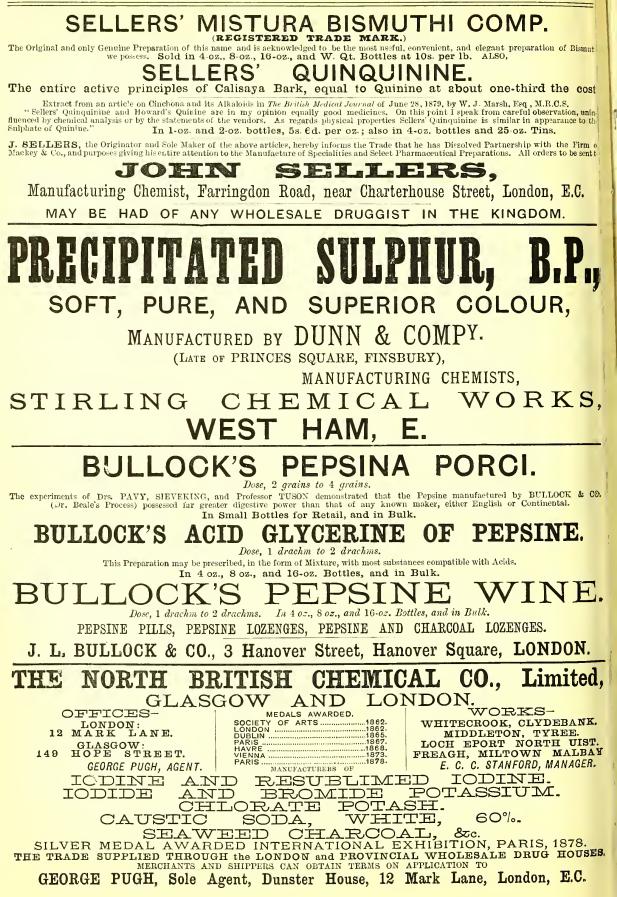
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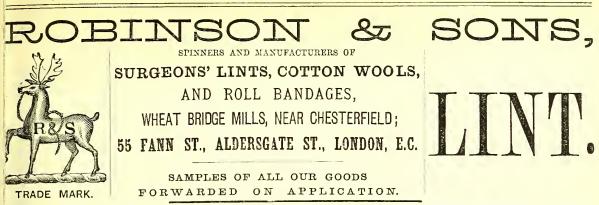
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Feb. 14, 1880.



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PARIS EXHIBITION, 1878. The "LANCET," August 24, 1878, says :--

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Jan. 8th, 1880. Gentlemen, I have great pleasure in testifying to the great satisfaction your Coated Pills have given me. The Pills enclose to you were some I got from you about three years ago, and since then they have gone through severe test, having made four Voyages to South America, three being to the West Coast and two to the West ndian Islands. They were kept in a tin box, anything but air-tight, and had no protection from damp. The Coating ould not be in better condition, and, having used some lately, I found their efficacy quite unimpaired.

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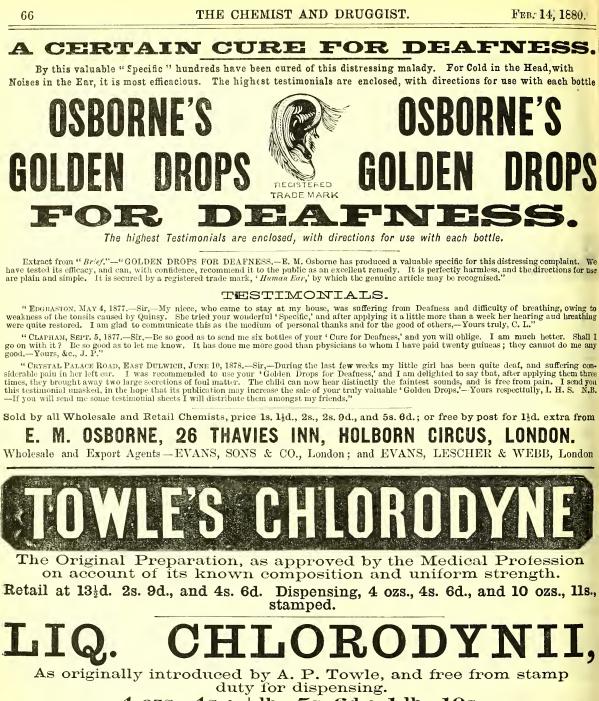
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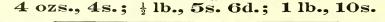
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Feb. 14, 1880.

COLLIS **BROWNE'S** Dr. J. ORIGINAL AND ONLY GENUINE. THE

IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD, and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment tha Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as eliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the

Court would have given Dr. Browne protection.' LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that ad application been made at a proper time and place, the Court would have found means to restrain the Defendant from misreresenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepreentation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the Times, November 14th, .865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant ublishes the said testimonial as referring to his medicine.

The Editor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the nventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; revertheless he assumes the name, testimonials, &c., of Chlorodyne. Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now

ncumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Povernment Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts it analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they nvariably supply Dr. J. Collis Browne's :---

	J FI J · · · · · · · · · · · · · · · · ·		
	Apothecaries' Hall, London.	Gale & Co., London.	Newbery & Sons, London.
	Allen, Hanbury & Co., "	Giles & Son, Clifton.	Oldham, G., & Co., Dublin.
	Baiss Brothers,	Goulding, Messrs. Cork.	Parsons & Richardson, Leicester.
3	Banks & Richards, Birmingham.	Gratton & Co., Belfast.	Peake, Allen & Co., Dublin.
	Barron, Harvey & Co., London.	Grimwade, Ridley, London.	Raimes & Co., Liverpool.
	Bell, John, & Co.,	Grindley & Son, Chester.	Raimes & Co., York.
	Bourne & Torler		Raimes, Blanshards & Co., Edinburgh.
	Corbyn & Co.,		
		Hodgkinson, Tonge & Stead, ",	Sang & Barker, "
	Cox & Gould, ,,	Hopkins & Williams ,,	Sanger, J., & Sons, London.
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	Curtis & Co., ,,	Hunt, A., & Co., ,,	Smeeton, W., Leeds.
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*	Dunn & Company, "	Mander, Weaver, Wolverhampton.	Treacher, Hodgkinson & Co., "
	Edwards, W.,	Marsden & Sons, London.	Westrup, J. B., Kensington.
	Evans, Gadd & Co., Exeter.	Maw & Son, "	Westwood & Hopkins, Lincoln.
	Evans, Lescher & Evans, London.	Manager P. C.	Woolley, James, Manchester.
	Ferris & Co., Bristol.	Mackay, John, Edinburgh.	Wyleys & Brown, Coventry.
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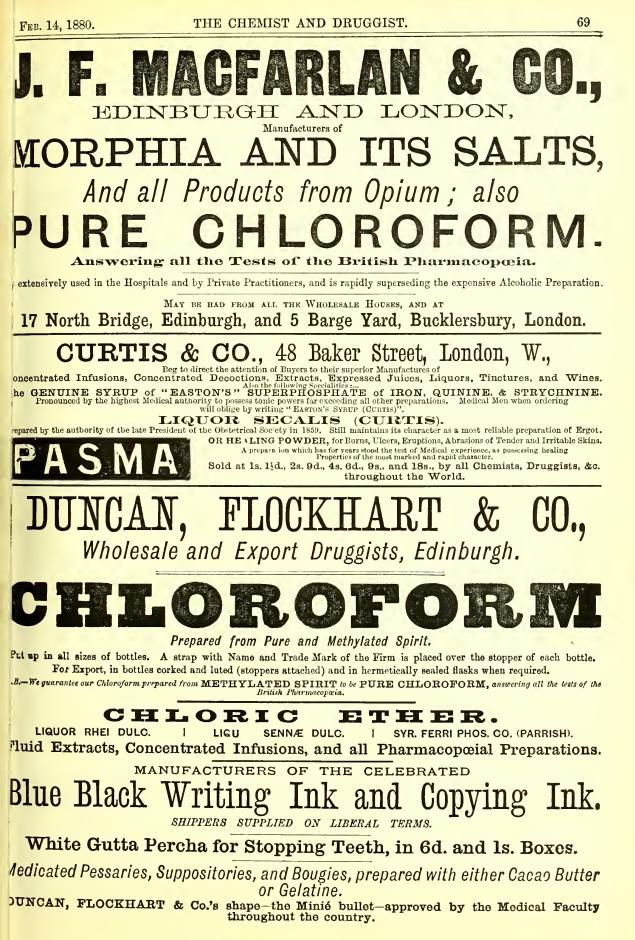
After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy alone creates the great demand.

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THE CHEMIST AND DRUGGIST.

FEB. 14, 1880.



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have now become one of the leading Patent Medicines of the present day. From north to south, and from east to west, they are to be found in the homes of the rich and the poor. All classes of society use them, and they are by thousands declared to be

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For a Weak Stomach, Impaired Digestion, and all Disorders of the Liver, thy act like "MAGIC," and a few doses will be found to work wonders on the mst important organs in the human machine. They strengthen the whole mscular system, restore the long-lost complexion, bring back the keen edge oappetite, and arouse into action, with the ROSE-BUD of health, the whole pysical energy of the human frame. These are "FACTS" admitted by thusands, embracing all classes of Society, and one of the best guarantees to the Nervous and Debilitated is, BEECHAM'S PILLS have the LARGEST S'LE of any Patent Medicine in England.

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SCHERI	NGS' PURE CI	IEMICALS
LATE GARDONIA		En from Grand's As'd Weters 1.1
ACID, CARBOLIC or	Fine white hard crystals	Free from Cresylic Acid. Watery solution will not show greasy spots floating on top.
Phenol Absolut	Almost white needles	Freely and entirely soluble in alcohol or water
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" PYROGALLIC	White, powder, crystallised, and	
" SALICYLIC (Kolbe's)	dialysed	Dissolves colourles: in water or alcohol purest for medicine.
" TANNIC	Lightest crystals	Dissolves almost colourless in water, alcohol
yy yy ··· ··· ···	Powder and granulated	and ether. Dissolves freely in water, alcohol, and ether.
CELLOIDINE (Patent)	Gelatinc plates	Parest Pyroxylin; incxplosive.
CHLORAL HYDRATE	White cake and crystals	Sec Liebreich's, below.
CHLORAL HYDRATE (Lieb- reich's)	Transparent rhomboidals (facsimile of Dr. Liebreich's)	Will not decompose by age, as the ordinary product will do, to the danger of the patient
CHLOROFORM (ex Liebreich's Chloral)	Schering's original label	Free from foreign chlorides. Will leave no odour on evaporation.
CROTON CHLORAL	Shiny crystalline scales. (Powder	Frec from foreign chlorides.
GLYCERINE	form most objectionable) S.G. 1260, double distilled, bril- liantly white, odourless; also lower S.G. and qualities	Free from lime, chlorides, metals; will stand severest chemical tests.
IODINE	Resublimed, fine scales	Purest.
IODOFORM	Dry yellow scales	Purest, by medical reports.
POTASS, BROMIDE	Fine white dry regular crystals	Perfectly free from iodide, and the most free
" CAUSTIC	Lump and stick, white	from chloride. Commercially pure, and pure by alcohol.
" CYANIDE	Ditto ditto	30°/o, 45°/o, 60°/o, and 95°/o.
" PERMANGANATE	Large and small crystals	Chemically pure.
" IODIDE	Fine white dry regular crystals	Apply Barytic and other tests. This will never change colour.
SILVER, NITRATE	Fine large crystals	$63 \text{ to } 63\frac{1}{2}^{\circ}/_{\circ}$ pure silver.
SODA, CAUSTIC	Lump and stick, white	Chemically pure, and pure by alcohol.
SODA SALICYLATE, and other Salicylates	White powder and crystals	Freely soluble in water and alcohol.
H. FINZ	ELBERG, of Ander MANUFACTURER OF	nach-on-Rhine,
ERGOTINE, pure Dialysed	Brown colloid, purified by Dialysis	Free from all saline matter present in the
FERRUM OXYD. (5°/o Dialysed)	Transparent brown liquid, purified by Dialysis	ordinary Ergotine and extracts. Free from all saline matter. Diluted by ter times its weight of water, will stand the test of Nitrate of Silver.

PEPSIN PORCI (100°/_o)

White, sweet, odourless powder

- test of Nitrate of Silver.
- Freely soluble in water, not hygroscopic, and will not deteriorate; will dissolve (by Wittstein's test) 100 parts of white of egg and 250 parts of fibrine.

GUSTAV RHODIUS, of Burg Brohl. MANUFACTURER OF

POTASS, BICARBONATE ... SODA, BICARBONATE SODA, CARB. (purest)

White powder and crystals Purest white powder, taste neutral, speciality for Soda powder Dry, for pure Soda Salts

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Dissolves bright in water. Sec tests P.B.

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Indifferent to Nitrate of Silver and Chloride of Barium.

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For Quotations, &c., apply to Wholesale and Export Drug and Chemical Houses.

72

SPECIAL DRUGHSTS. NII

Increase your Selling the Business by EA. COMPANY'S DRIENTA

In submitting their Teas to Agents, the above-named Company desire to offer the following remarks : -

THE PROPRIETORS have been long connected with the EAST, as IMPORT and EXPOST MERCHANTS, and, with the means their command, are enabled to avail themselves of their experience in purchasing at the proper season, from the best rkets, and direct from the TEA PLANTERS, thereby securing the choicest pickings, and saving all intermediate profits tween producer and consumer.

THE TEAS being thus bought are carefully cut, sifted, and mixed by the most improved machinery, under the superendence of a PRACTICAL TEAMAN, whose whole study has been devoted to the ART OF BLENDING TEAS to suit the Tastes the general public; and it may be added that it is greatly due to judicious blending that the COMPANY'S TEAS have quired the position they now hold.

INDIAN TEAS have within the last few years obtained such favour with connoisseurs for Strength, Aroma, and Delicacy Flavour, that THE ORIENTAL COMPANY have introduced, as a SPECIALTY, a blend of these fine Tess, the sale of which has tained such proportions as to warrant the assertion that it produces the most delicious beverage ever offered to the public.

THE TEAS are packed in specially-prepared wrappers, with TINFOIL LINING, in 4-lb., 4-lb., and 1-lb. Packets; 5-lb., 10-lb., id 20-lb. Tins; 20-lb. Boxes, Half-chests, and Chests; and retailed as under.

Fine China Ble	nded	Tea,	Magenta	Label	•••	•••	•••	•••	Retail at	2/0 pe	r lb.
Finest "	,,	,,	Blue	,,	•••	•••	•••	•••	,,	3/0	"
Fine Indian	,,	,,	Green	33	•••	•••	•••	•••	,,	2/6	,,
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NESTLE'S MILK FOOD is prepared at Vevey, Switzerland, from the pure milk of Alpine fed cows, the finest wheaten flour nd sugar, combined in exact proportions to imitate closely the natural food for intants. It is thoroughly cooked, and reduced to fine powder, perfectly soluble in water, requires only the simple addition of water to prepare it for use-in this respect having be advantage over all other foods.



NESTLE'S MILK FOOD is highly recommended by the best medical authorities in all parts of the globe as a perfect diet. Nestle's is the original and genuine Milk Food or Powder. The extensive demand for this Food, its well known superiority and universal recognition by the medical profession, have produced the inevitable imitations. The trade and the public are hereby cautioned. Nestle's Milk Food has stood the test of years. Take no other under any pretence whatever.

NESTLE'S MILK FOOD is put up in tins, packed in lined cases specially for the export trade. Is highly concentrated and in a perfectly dry state. Will keep good in any climate.

Our Wholesale Agents at any port will pack and ship the Food to or for any part of the world.

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junction granted by V.-C. MALINS will be found in " Chemist and Druggist," February 15, 1877, page 76.



of the Press, and full information will at all times be given direct, or through the Patent Medicine Houses.

LAZENBY & SON'S PICKLES. **F** Sauces, and Condiments .- E. LAZENBY & SON (6 Edwards Street, Portman Square), Sole Proprietors of the Celebrated Receipts, and Manufacturers of the Pickles, Sauces, and Condiments so long and favourably distingisuhed by their name, beg to remind the Public that every article prepared by them is guaranteed as entirely unadulterated. Manufactory, 18 Trinity Street, London, S.E.

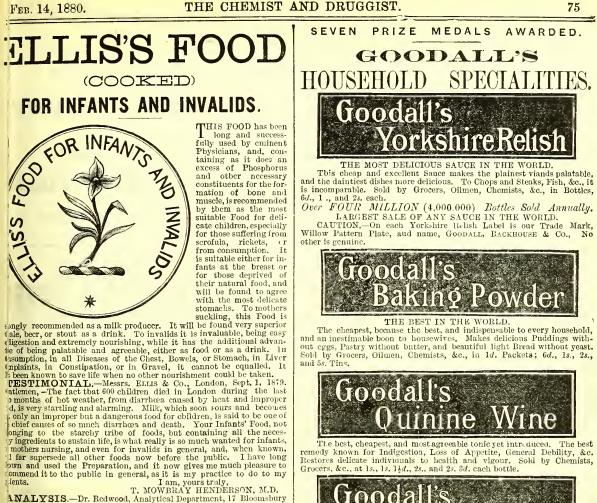
HARVEY'S SAUCE.-CAUTION-The admirers of this Celebrated Sauce are particularly requested to observe that each bottle prepared by E. LAZENBY & SON bears the label used so many years, signed " ELIZABETH LAZENBY."

MUSTARD. FINCH, RICKMAN & CO.'S Genuine Qualities

Are made from the finest mustard seeds only. Their compounds, as manufactured for upwards of a century, are guaranteed free from all ingredients imparting spurious heat, and are therefore equally suitable for both table and medical

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Undertake not to supply Co-operative Stores. 6 Broken Wharf, Upper Thames St., London.



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Sold in Tins, price 1/, 2/6, 5/6, and 10/6, by all Chemists and Grocers. WHOLESALE LONDON AGENTS:

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Pure Cocoa only, with the superfluous oil extracted.

tt is strongly recommended to all who appreciate the full flavour and c aroma of Cocoa.

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"If properly prepared, there is no nicer or more wholesome preparation Cocoa."-Food, Water, and Air, Edited by Dr. HASSALL.



RY'S CARACAS COCOA.—" A delicious preparation."

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See Pages 41 & 42.

The instructions given are inspired y to lowed. The reprinters entertain the greatest confidence in the article, and can recommend it to Housekeepers generally as a useful agent in the preparation of a good Custard. Delicious to Jam Tar's. [Delicious to all kinds of Fruit, Delicious to all kinds of Fruit, Delicious

ustard Powder

For making delicious Custards without Eggs. in less time and at half the price. Unequalled for the purposes intended; will give the utmost satisfac-tion, if the instructions given are implicitly followed. The Proprietors

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Makes Three Gallons of the Best Ginger Beer in the World for 3d Is a delicious and invigorating beverage, possessing valuable medicinal properties. It is cooling in its nature, and a most wholesome beverage for both winter and summer. It is easily made, and is by far the cheapest and test Ginger Beer Powder ever offered to the public. Sold in Packets, 3d. and 6d. each, by all Grocers, Chemists, and Italian Warehousemen.



FOR PAINTING STOVES, GRATES, IRON, TIN, &c. This invaluable composition is superior to any yet offered to the public, possessing great brilliancy, and thoroughly protecting the article it is applied to. Sold in Bottles at 6d, and 1s, each. SOLE MANUFACTURERS,

GOODALL, BACKHOUSE & CO., White Horse St., Leeds. A Mon'hly Price List of Drugs. Chemicals, Druggist' Sundries, Patent Medicines, &c., can be had post free on application.





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Lozenges of all descriptions made from Customers' private formulæ (or ingredients) and stamped with name if required. APPLICATION. LIST ON PRICE



MAWER'S TARAXACUM OR DANDELION COFFEE Prepared from the Fresh Root.

Notwithstanding the many attempts to imitate this incomparable pretion, and the sales have of late immensely increased. Wherever it is introduced it meets with increasing appreciation and continuous sales, for beyond doubt it excels all in quality, strength, aroma, and cheapness. Chemists everywhere find this the most saleable article of the name. It

is neatly packed in air-tight tins, and is spoken well of throughout Great Britain and several of our Colonies. To be had from all London Patent Medicine and Sundry Houses, and direct from the Maker in Tins, 6d., 9d., 1s., 1s. 6d., and 2s. Write for terms to

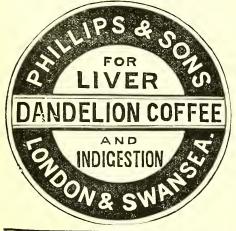
EDWARD MAWER. Chemist, HIGH WYCOMBE, BUCKS.

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ESTABLISHED 1760. Contains three times the strength of ordinary Breakfast Beverages.

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Physicians for many centuries, has now become an article of daily use. Sold by all Chemists throughout the Kingdom in Tins at 1s. 6d., 1s., 9d, and 6d.-Price Lists on application to the Manufacturers, PHILLIPS SZ SON. CASTLE SQUARE, SWANSEA.

The valuable properties of the Dandelion Root, recognised by eminent

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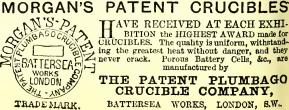
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CHEMISTS' TEA AGENCY. BROKEN-LEAF TEA, 1s. 8d. per lb.

A Money-saving Tea, absolutely pure, in half-pound packets 10d. The small leaf from fine India and China Teas, stronger, richer, and eheaper than any whole-leaf tea. Wholesale to Dealers and Sellers and Agents. 40 lbs, sent free to any railway station in the kingdom.-WALKER & DALRYMPLE. Warehouses-154 and 155 Whitechapel Road, London. P.O.O. payable at Head Office. Bankers-The National Pro-vincial Bank of England. N.B.-Samples posted free.



HAVE RECEIVED AT EACH EXHI-BITION the HIGHEST AWARD made for CRUCIBLES. The quality is uniform, withstand-ing the greatest heat without danger, and they never erack. Porous Battery Cells, &c., are manufactured by

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601

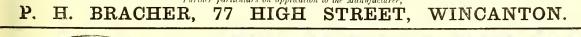
Nos. V. and VI.

17/-

These Machines are admirably adapted for mixing all kinds of powders, heavy or light, in the shortest possible time, thereby superseding to a great state the use of the Pestle ond Mortar, and supply a long-felt want amongst Chemists and Druggists, Grocers, Confectioners, Drysalters, Colour Merchants, nd Manufacturers.

Ind Manufacturers.
They are durable, easily cleaned, portable, require no fixing (except in the case of large sizes), can be worked either with or without the cover, and re, without doubt, the best and cheapest Mixing Machines ever invented.
Every Retail Chemist and Druggist, Groeer and Confectioner, should possess one of these little Machines, as the small outlay would be soon repaid in the saving of time and trouble, indeed it would searcely be thought possible that the articles could be so thoroughly blended in such an incredibly short time.
The Nos. 3, 4, and 4a are for mixing Baking Powder, Coffee and Chicory, Sherbet, Lemon Kali, &c., &c., and will blend from 11b. to 500 lbs. per hour.
The large sizes are used by Wholesale Druggists, Confectioners, Drysalters, Sherbet and Lemon Kali Manufacturers, and all who have large quantities to mix.
See the CHEWIGHT AND HUGGET OF March 15, 1879; also the GROGET AND OF THE NOS. See the CHEMIST AND DRUGGIST of March 15, 1879; also the GROCER AND OIL TRADE REVIEW of April 12, 1879.

Further particulars on application to the Manufacturer



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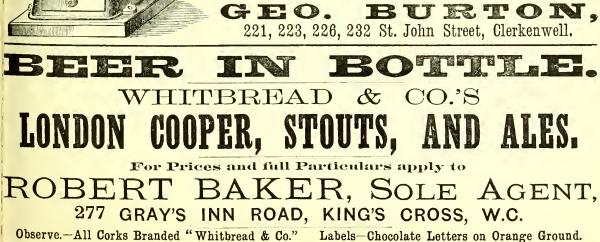
Advantages-The cutters or grinders never wear out. Cutters or Grinders can be cleaned and refixed in one minute, thus any quantity of different articles can be ground without fear of intermixture. Price No. 2a Mill, 26/-

Price No. 4a Mill, 70|-,, ,, 3a ,, 50|-,, 1a ,, American Tincture Presses, 8|-, 12|-

Larger size if required.

See PHARMACEUTICAL JOURNAL, November 17, 1877, page 399.

SOLE AGENT,



GEO.

N.B.-It is very des rable that all orders should be sent on or before Saturday, 20th December, to lessen as much as possible the pressure of business that takes place previous to a General Holiday.

Feb. 14, 1880.





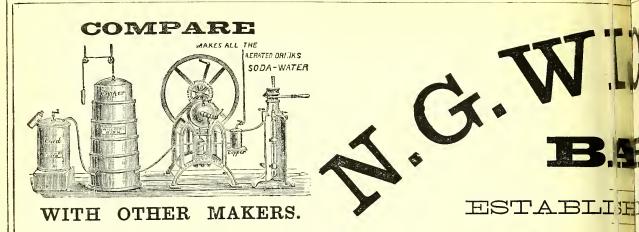
These Machines are lined with pure tin, the pipes are of pure tin, and very care is taken to make them as perfect as possible. For convenience, and saving of time and labour, these Machines are not excelled; there-ore, for Makers of Soda Water, Lemonade, Ginger Ale, Seltzer, Potass, Vichy, and other Waters, they are invaluable.

NOTICE.—The Trade and all others are notified that no one has autho-rity from us to manufacture any of our specialities; and anyone pretending to have such, and manufacturing the same, will be dealt with according to law. All are therefore safe only by dealing with the original Inventors and law. All are th Manufacturers.

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In our New Catalogue, just issued, will be found illustrations and descriptions of the various Machines for Making Aërated Waters and Bottling the same, Marble Machines for the Counter, of various designs and prices, Copper Cylinders and Coolers, Syphons and Fillers, Ice Safes, Silver-plated Counter Draught Tubes, Tumblers, and Silver-plated Holders, Measuring Taps, Ice Cream Freezers, Fruit Juices, Extracts for flavouring, and Fruit Syrups, for Export or otherwise. Patent Clasps for Bottles, Pressure Gauges, the Cabinet Machine for Clubs, Private Families, Messes, &c. Mineral Waters for Export. Bottles, Corks, Gincer Ale Extract Ginger Ale Extract, Gum Extract, for producing foam, Cider Extract, &c., &c.





N. G. WILCOCKS' SODA WATER & LEMONADE MACHINES.

THE Opinions and Testimonials which have been published must convince everyone that Wilcocks' Machinery is quite satisfactory. Hundreds of factories are fitted or supplied with these Machines, and testimonials extending over many years are so numerous that though several hundreds have been printed, a very much larger number has been received.

N. G. WILCOCKS has had a long practical experience, and gives his undivided attention to this branch of his business. Every portion of the Machines he makes has had his most diligent study for years past, and his inventions and designs have been approved and used by some of the most eminent Aërated Water Makers in the kingdom. All his 'cu-tomers, British or foreign, may be assured of his personal attention to their orders.

All Wilcocks' Machines are made on the continuous process direct-action Bramah principle; the solid plunger works through the bottom of the pump in a ring or collar of cupped leather; the valve body is at the top of the pump. Constant and energetic endeavours have been given to make these Machines the most perfect in existence, and these endeavours have been successful. Mr. Wilcocks can introduce his customers to factories where they can see his Machines in full and profitable operation, and so have an opportunity of judging for themselves.

Wilcocks' "Favourite" Machine is really the favourite among makers; most intending manufacturers purchase one of the four sizes in which it is made. The full-sized Machine, with dial and water gauges, and gas work, as exhibited at the recent Mineral Water Trade Exhibition, Agricultural Hall, London, sells at $\pounds 42$ 10s. Hundreds of these have been sold during the last few years, and they are generally esteemed firstclass moderate priced Machines.

Wilcocks' Bottling Apparatus is the result of prolonged study; it is the simplest in use, and is consequently the most easily repaired, while it is quite as efficient as the most expensive.

The "Eclipse Filling Machine," at £4 10s., can be so confidently recommended that the money will be returned in any case where it fails to give satisfaction. It is hoped that its very low price will not raise a prejudice against it.

A simple contrivance for Syruping has just been perfected by Mr. Wilcocks, and particulars will appear in future announcements.

His Soda Water Machine makes 200 dozen bottles a day with hand power; more can be turned out if a small motor, such as a steam, air, or water engine, be employed. Any filling apparatus, patent or not, for patent or corked bottles can be attached to this machine.

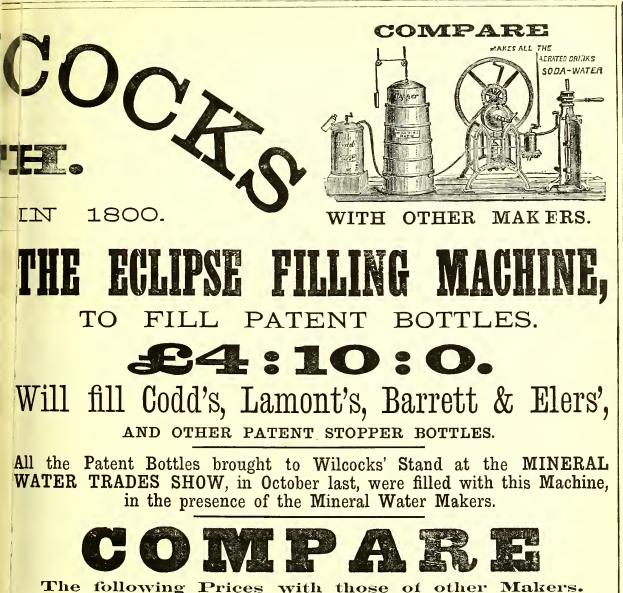
Mr. Wilcocks has very complete plant, tools, and stock, and employs a staff of highly skilled and experienced workmen. Every part of his machines is made by his own workmen from the best materials. The copper gun-metal and English tin are of the best obtainable quality; sound, well-seasoned oak is used for the cooperage.

By thus making even the earliest stages of the machines, all intermediate profits are avoided, and the quality of the material and the soundness, accuracy, and finish of the workmanship can be guaranteed. Every machine is carefully tested by actual use before it is sent out. Although Wilcocks' Machinery is low in price, it is confidently claimed that it will be found equal in every respect to the best in the market.

Every process of manufacture can be seen in active operation at Bath.

Mr. Wilcocks has had long experience, not only in machines, but in every other requirement of the Aërated Water Trade, and he is prepared to supply formulæ for bottled drinks, full directions for manufacture, plans and estimates for complete factories, and all information necessary to ensure success in this lucrative business.





	A full-size Machine, to make 200 dozen per day by hand power A small Machine, to make 100 dozen per day by hand power and Botting Rack	£50	0	0
C. C				
-	A smaller Machine, to make 60 dozen per day by hand power (included with cach.)	£30	0	0
1	Wiring Stand or Tying Stool	£1	10	0
Î	Bottle-Washing Apparatus for Power	£1	5	0

A printed Book of Testimonials and opinions from buyers and users of N. G. W.'s make Soda Water Machine Engines and

Boilers, also new Illustrated Descriptive Catalogue, sent post free to any part of the globe upon application. A number of the above Machines can be seen in different stages of progress at this Manufactory. Inspection, and a visit from an intending purchaser, is invited to examine the weight, strength, size, capacity, quality, finish, and *price* in this Machine, and the *testimonials* from large numbers to whom this Machine has been supplied in years past. If required, a written guarantee is given to a purchas, r with each Machine.

A complete Machine, with Vertical Boiler and Horizontal Steam Engine, to . £91 10 0 make 300 dozen per day, with all Mountings A complete Machine, with Vertical Boiler and Horizontal Steam Engine, to make 2,000 dozen per day, with all Mountings, ready for work . . £150 10 0

NATHANIEL GEORGE WILCOCKS, ENGINEER, BATH.

FEB. 14, 1880.



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THE "LONDON-MADE" SYPHON.

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hese are a great convenience, strengthening the Cap Labels, and keeping the lips of the Bottles free from dirt. The following sorts are kept in stock :--



HONESTY

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BEST POLICY,

Size of this Circle, on Stout Boards, no Printing.

Price-5,000, 8d.; 10,000, 7d.; 25,000, 6d.; 50,000, 5d.; 100,000, 4d. per 1,000.

"PLAIN" DISCS.

"MOTTO" DISCS,

Printed on Stout Boards in Black Ink ; they consist of an immense variety of Mottoes and Well-known Sayings. Price-5,000, 9d.; 10,000, 8d.; 25,000,

7d.; 50,000, 6d.; 100,000, 5d. per 1,000.

"GROTESQUE" DISCS,

Printed on good Cardboard in Blue Ink; they consist of a great variety of Amusing Figures.

Price-5,000, 1s.; 10,000, 11d.; 25,000, 10d.; 50,000, 9d.; 100,000, 8d. per 1,000.



GIVEUSATASTE

OF YOUR QUALITY

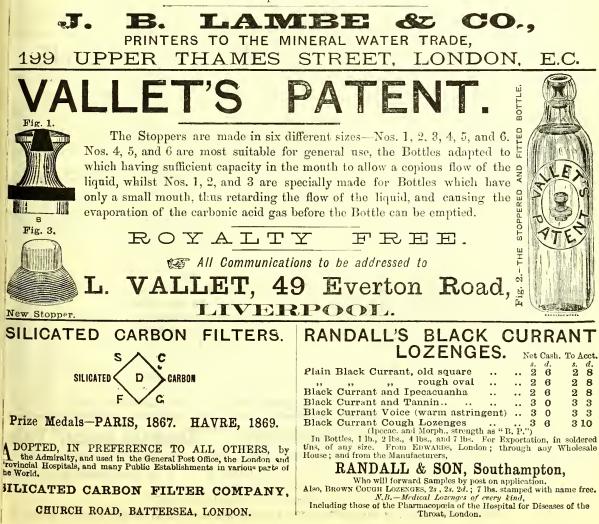
SHAKESPEARE

"QUOTATION" DISCS,

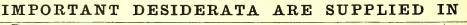
Printed on good Cardboard, Lake Ink; they consist of an immense number of Quotations from Shakespeare, Byron, Milton, Burns, &c., &c.

Price-5.000, 1s.; 10,000, 11d; 25,000, 10d.; 50,000, 9d.; 100,000, 8d. per 1,000.

All the above are assorted in Boxes of 5,000, each Box containing an immense assortment. ices and Samples submitted for all kinds of Labels, and also for Show Cards, Circulars, Price Lists, and all printed matter required in the business.



CHURCH ROAD, BATTERSEA, LONDON.





MESSIGN WHEELER & CO. have produced a REMARKABLY HANDSOME SHOW-CARD, representing a package of WENHAM'S LIME-JUICE SALINE, on a gold ground, with a border of lime fruit and blossoma."-CHEMIST AND DRUGGIST, Trade Notes, July, 1879.

LAMPLOUGH'S EFFERVESCING PYRETIC SALINE.



HAVE IT IN YOUR HOUSES AND TRAVELS, USING NO OTHER SALINE; it gives instant relief in Headaches, Sea or Bilious Sickness, and quickly eures the worst form of Eruptive or Skin Complaints. The various diseases arising from Constipation, the Liver, or Blood Impurities, Inoculation, the results of hreathing air infected with Fevers, Measles, or Smallpox, are frequently prevented and certainly cured by its use.

The sale of these Saline Salts having greatly increased during the past few years, I beg most cordially to thank those who sell and recommend the same, and also to inform intending dealers that they will find Messrs. BARCLAY, EDWARDS, MAW, NEWERY, SANGER, SUTTON, and the Wholesale Houses generally, ready to supply their wants. This Advertisement is found needful in consequence of the trouble, cost, and inconvenience in the keeping and collection of numerous small accounts. Note.—The Name, Trade Mark, Labels, Wrappers, &c., are all Registered and Entered at Stationers' Hall. 113 HOLBORN HILL, LONDON, E.C.



SPECIAL NOTICE.-Medical Gentlemen having fever cases, and desirons of trying the Saline, can have a single bottle at wholesale prices hy sending their cards.

PARNELL'S CHALYBEATE SALINE.



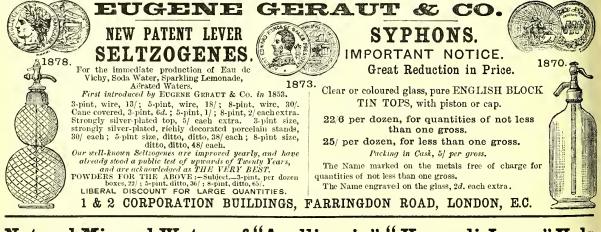
REGISTERED TRADE MARK.

An Agreeable Cooling Febrifuge and Tonic Aperient Effervescent Salt, being a Chalybeate Water in a solid form. ANALYTICAL REPORT BY DR. T. REDWOOD.

ANALYTICAL REPORT BY DR. T. REDWOOD. As the result of a caroful analysis I am enabled to state that Parnell's Chalybeate Saline is what it purports to he, a mild Chalybeate and tonic, possessing aperient and alterative properties to a sufficient extent to render it an efficient, and as I helieve, a valuable medicine. The ingredients are judiciously comhined so as to yield, when mixed with water, an agreeable effervescing draught. T. REDWOOD, Pb.D., F.I.C., F.C.S., Professor of Chemistry and Pharmacev to the Pharmaceutical Society of Great Britain.

To be obtained in Bottles, 2s. 6d., from SANGER & Co., NEWBERY & SON, and all Wholesale and Retail Chemists, and from

26 BUCKINGHAM PALACE ROAD, S.W. Show Cards and Handbills sent free on application. Paris Agent-M. SWANN, Rue Castiglione.

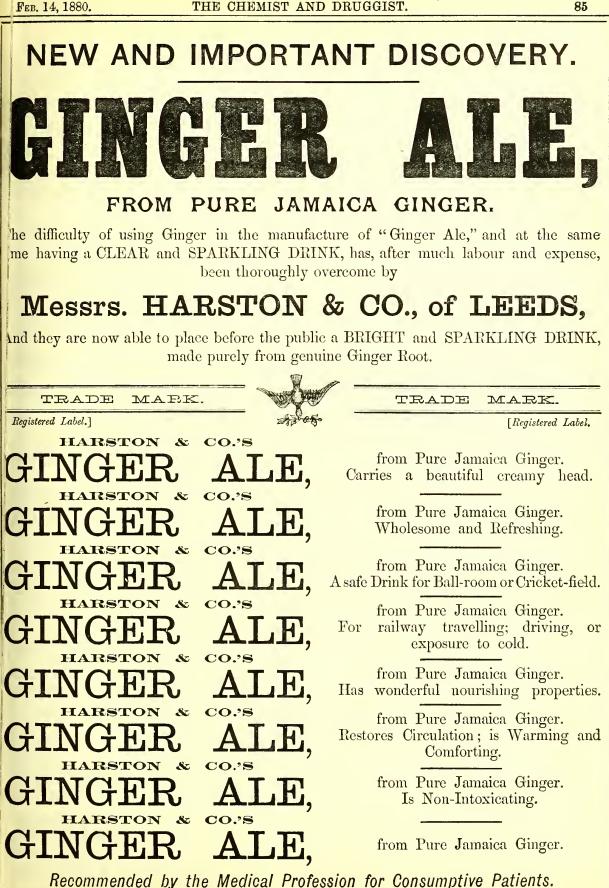


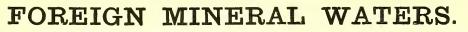
Natural Mineral Waters of "Apollinaris," "Hunyadi Janos," Vals, Vichy, Carlsbad, Seltzer, Kissingen, Homburg, Pullna, Friedrichshall, &c., direct from the Springs.

Also the ARTIFICIAL MINERAL WATERS prepared by Dr. STRUVE & CO., at the Royal German Spa, Brighton, and R. ELLIS & SON, Ruthin.

Appointed Agents for the celebrated "APOLLINARIS WATER."

W. BEST & SONS, Foreign Wine, Spirit, and Mineral Water Merchants, 22 Henrietta Street, Cavendish Square, London, W.





FOREIGN LIQUEURS. WINES. FOREIGN EVERY DESCRIPTION. FOREIGN **SPIRITS** OFANGOSTURA BITTERS.

APPLY TO

JAMES SMITH & COMPANY, IMPORTERS, LIVERPOOL : 9 LORD STREET.

Caution

W. A. ROSS, the Original Patentee and Maker of The Celebrated Belfast Ginger Ale, cautions the Public that the "GENUINE" can only be had at



NAME ON CORK, CAPSULE, AND LABEL REGISTERED.

EXPORT ORDERS HAVE SPECIAL ATTENTION.

RANDALL, SLOPER & CO., SODA WATER MANUFACTURERS, SOUTHAMPTON.

GOODS FORWARDED CARRIAGE PAID WITHIN 80 MILES OF SOUTHAMPTON, ON ORDERS OF 2 GROSS AND UPWARDS.

Soda, Seltzer, Potash & Aerated Waters supplied in Syphon Bottles.

Importers of Hunyadi János, Friedrichshall, Vichy, Pullna, Carlsbad, and other Foreign Mineral Waters, supplied at Prices which will bear comparison with London Rates.

PRICE LISTS FORWARDED ON APPLICATION.



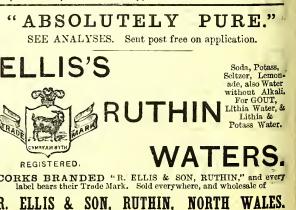
GINGER ALE (Aromatic). GINGER ALE (Aromatic).

GUARANTEED FREE FROM ALL IMPURITIES. Our terms are more favourable for a family trade than those of any first-class makers.

KINMOND & CO., LATE J. DAILY & CO., LEAMINGTON.

Trade List and Descriptive Pamphlet of the Apneumatic process free on application.

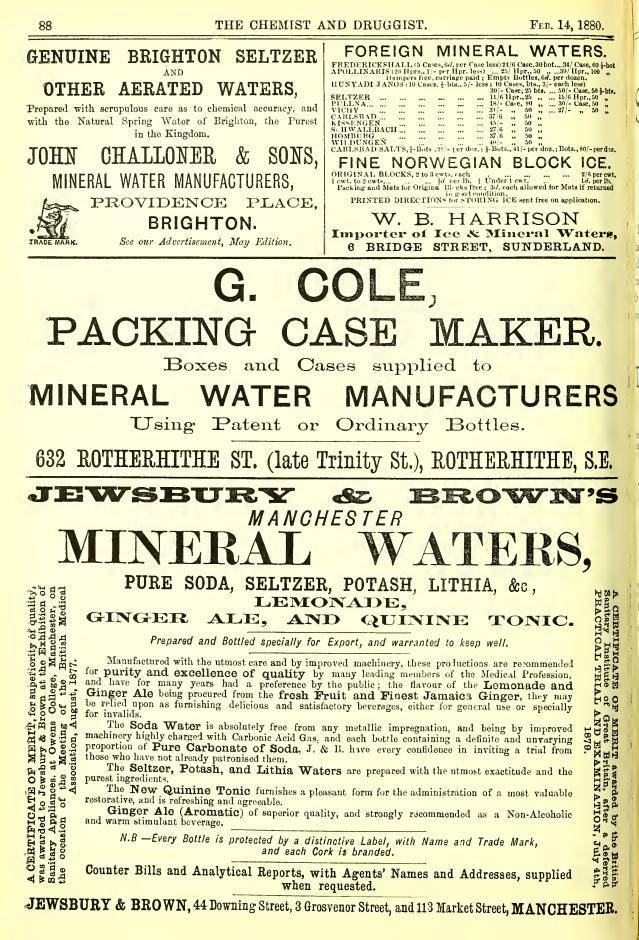
PURE AERATED WATERS.	"ABSOLUTELY PURE."
MANUFACTURED BY	SEE ANALYSES. Sent post free on application.
T. & F. J. TAYLOR, NEWPORT PAGNELL.	
ESTABLISHED 1835.	ELLIS'S Sola, Potass, Seltzer, Lemon
Purity and Excellence of the Water certified by Analysis by PROFESSOR ATTFIELD, Ph.D., F.C.S.	Seltzer, Lemon ade, also Water
	without Alkali
10 grains of Bicarbonate of Soda in each bottle.	Lithia Water, 8
ERATED WATER, without Alkali.	TUININ Lithia & Potass Water.
	MADE MARK
OTASH WATER, containing 10 grains or 20 grains of Bicarbonate of Potash in each bottle.	
LITHIA AND POTASH WATER.	REGISTERED. WATERS.
ELTZER WATER, prepared according to Analysis of the Natural Water.	CORKS BRANDED "R. ELLIS & SON, RUTHIN," and ever
EFFERVESCING LEMONADE, superior in flavour	label bears their Trade Mark. Sold everywhere, and wholesale of
colourless, and warranted to retain its brillianey.	R. ELLIS & SON, RUTHIN, NORTH WALES
Each Bottle is protected by a Label bearing the Signature of the Firm	London Agents: W. BEST & SONS, Henrietta St., Cavendish Square.



FEB. 14, 1880.



87



HAY'S **SOLUBLE** ESSENCE JAMAICA GINGER

(GUARANTEED PURE AND FREE FROM CAPSICUM).

This highly concentrated Essence is the purest Jamaica Ginger flavour nd aroma, is highly adapted for the anufacture of Aërated Waters, and r all dietetic, medicinal, and pharmaeutical purposes.



THE COST of this Essence in the manufacture of Ginger Beer, &c., is a little under $2\frac{3}{4}d$. per dozen bottles. Dose, 10 or 15 drops to half-a-teaspoonful in water.

Trade Price, 5s. per lb.

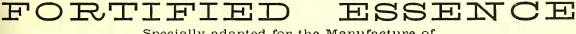
ESSENCE

JARANTEED PURE AND FREE FROM CAPSICUM).

Trade Price, 5s. 6d. per lb.

This Essence, which is an addition of Vanilla, Lemon, and other flavours to the above, is strongly recommended for the anufacture of Ginger Beer, Wines, &c., to which it imparts with the GINGER a PECULIARLY FINE FRUITY FLAVOUR nd AROMA. THE COST of this Essence in the manufacture of Ginger Beer, &c., is a little under 3d. per dozen bottles.

THE COMPOUND



Specially adapted for the Manufacture of



THIS ESSENCE, besides its special adaptation as above, is strongly recommended for the manufacture of GINGER BEER. nd other kinds of Aërated Beverages, especially in those cases where it is desired to impart to those drinks at a SMALL COST he FULLEST amount of PUNGENCY with the FINE GINGER AROMA and FRUITY FLAVOURS of the LAST-**MENTIONED ESSENCE.**

THE COST of this Essence in the manufacture of GINGER ALE is 13d, per dozen bottles, and for GINGER BEER or GINGERADE a little under $1\frac{1}{2}d$. per dozen bottles.

MEDICAL AND OTHER OPINIONS ON THE SOLUBLE ESSENCE.

"Singular'y free from resin,"-The Lancet.

"It should entirely supersede the officinal preparation of the British Pharmacopæia."-Medical Press.

"It is a pharmaceutical desideratum."—The Chemist and Druggist.

MEDICAL AND OTHER OPINIONS ON THE GINGER BEER MADE FROM THE SOLUBLE ESSENCE

"An excellent effervescing drink."—The Lancet. "Extremely grateful and palatable, and certainly preferable to some wines we have tasted under the name of champagne."—Medical Press. "Clear and transparent, and very pleasing to the palate."—Medical Times and Gazette. "Has the purest Janniea Ginger aroma, distinguishable as soon as poured out. It is a beverage fit for any gentleman's table, and ought to attain great popularity."—The Chemist and Druggist. "Is as elear, bright, and sparkling as the best Lemonade."—Mineral Water Trade Review. "ztands in the foremost rank of Aërated Waters."—Mineral Water Trade Recorder.



GERMAN SILVER.

FIVE

FEB. 14, 1880.

T FILTER.

each.

Designed by

Retailed

SILICATE

MAJOR FRASER.

of the

ROYAL ENGINEERS.

especially

for Officers' Kits.

Weighs only 8 ounces.

No. A, No. B,

No. C, No. D,

No. E



It has been approved by the Authorities at the Horse Guards, and has been largely used in the Afghan and Zulu Expeditions.

No. 20 H. Sample sent free by Post on receipt of FOUR SHILLINGS.

DOMESTIC FILTER, NO. 27.

NO

at



Made in cream-coloured Stoneware, fitted with the Silicated Carbon Media, complete with Cover and Silver-plated Tap. All sizes of this pattern can now be had with Patent Ice Compartment, which renders this Filter the most perfect of Refrigerators.

With Ice PRICES. Compartment. 1 gall. .. 10s. 6d. 1 ,, .. 14s. 6d. No. 0, capacity 17s. 6d. ,, .. 21s. 0d. .. 32s. 0d. 2 25s. 0d. • • ,, ,, •• 36s. 0d. ,,, 6 48s. 0d. 42s. 0d. ,, ,, •• •• 8 52s. 0d. 70s. 0d. 60s. 0d. ,, ,, 80s. 0d.

UNIQUE STONEWARE FILTER, NO. 28.

P Y

GKE

NICKEL-PLATED,

No House should be considered as thoroughly furnished until it is supplied with one or more good Filters.

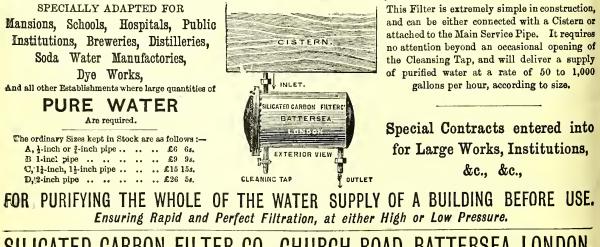
No Water should be used for Drinking or Cooking without being Filtered.

This Filter is made of a New Ornamental Stoneware, similar in shape to the Domestic Filter, and of two-gallon capacity. When arranged in a Hall or Conservatory, side by side with evergreens, the effect is very pleasing.

Price, with Silver-plated Tap, 30s.



FILTER, 40. MAIN SUPPI NO.



SILICATED CARBON FILTER CO., CHURCH ROAD, BATTERSEA, LONDON. PARIS: 131 Boulevard Sebastopol. NEW YORK: 194 William Street (H. R. Mensing, Agent).

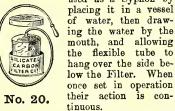
HAMBURG: 9 Deichstrasse (Joseph Schmutzer & Co., Agents).

SILICATED CARBON FILTERS.

YPHON FILTERS FOR TRAVELLERS. used as a Syphon by

By means of these filters pure and perectly wholesome water nay be drunk from any ond or stream by imply immersing the filter therein and drawng the water through he tube by suction.

Each of these portble Filters may be



They are readily cleaned from sedimentary matter by merely lowing through the tube, and brushing the surface of the ltering medium.

	-Pocket	Filter	r, 2 1	inches	diamet	er, in	porce	elain,	with	glass	5.	d.
					metal				••		2	6
-	-Ditto, a	1 inch	ies dia	meter,	in best :	stonew	are	••		••	5	0
	Ditto,	-	.,	· ·		.,	wit	h silve	r-plat	ed tap	7	0
_	-Emigra	nt's, 5	inche	s diame	eter, wit	h silve	r-plat	ed tar			12	0
	D. 1.4	73-74					-					

-Pocket Filter, for carrying over shoulder, as supplied to the Forces in Abyssinia and in Zululand, and to the Ashantee Expedition I.-Ditto, nickel-plated, designed by Major Fraser, R.E., and specially

recommended by the Horse Guards for Officers' kits

TABLE FILTER. NO. 24.

Made of stout glass, in 1, 2, and 3 pint sizes, the filtering medium being securely fitted into the bell-funnel, so that it is not liable to become loose, or to allow unfiltered water



to pass. This Filter is peculiarly suited for the Bedroom and for Table use, affording a ready and simple means of obtaining at any time freshly-purified water.

PRICES. O, 2s. 6d.; A, 4s.; B, 5s. 6d. Engraved Vine Pattern—O, 3s. 6d.; A, 5s. 6d.; B, 7s. 6d,

POROUS TERRA COTTA FILTER, NO. 29. Shape of this Filter as Fig. No. 24. O, 2s. 6d.; A, 4s.; B, 5s. 6d.

CARBON SILICATED BLOCKS. 2 in., 1s. 6d.; 2¼ in., 2s. 6d.; 2¾ in., 3s.; 3½ in., 4s.; 4¼ in., 5s. 6d. ea. SPECIAL QUOTATIONS FOR QUANTITIES.

PRIZE FILTER,

This Filter is constructed in the form and colour of an Etruscan Vase, having inside it a movable pan, into which the Silicated Carbon filtering medium is fitted.



6

5 0

PATTERN NO. 23.

The exterior is made of Porous Ware, which acts with remarkable power as a Refrigerator, keeping the water deliciously cool. Capacity, about Two Gallons.

PRICE, WITH SILVER-PLATED TAP, £3 10s.

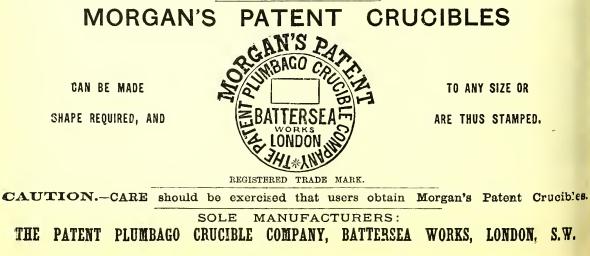


in Marbled Porcelain, with Cover. Can be placed in a jug, decanter, or other vessel. Price 7s. 6d. each.

ILICATED CARBON FILTER CO., CHURCH ROAD, BATTERSEA, LONDON.

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ГЕВ. 14, 1880.



A Delicious, Sparkling, Phosphated Iron Beverage.—Non-Alcoholic.— A Brain and Nerve Tonic, and Nutrient Tonic Beverage.

FACULTY. RECOMMENDED THE \mathbf{BY}

From "The British Medical Journal," August 30, 1879.

Among the various medicinal and other exhibits at the recent meeting of the British Medical Association at Cork, to some of hich we shall hereafter direct attention, there was one which, to our own judgment, bore away the palm. We refer to the ac ted and phosphorated iron beverage which Messrs. Evans & Co. of Wrexham manufacture for David Johnson, Esq., F.S., the patentee.

We had ample opportunities of testing its refreshing and invigorating qualities during our sojourn in the fair city of the exeme south-west; and we can confidently recommend it to the attention of physicians and others who are occasionally at a loss wit to direct their patients to take when parched by feverish thirst or depressed by exhausting allments—notably in cases we alcoholic stimulants would be prejudicial. We feel that it would be found exceedingly useful in mitigating the discomfort of mes experienced by those suffering from the thirst, loss of appetite, and general malaise connected with the last stage of phisis and chronic bronchitis.

We would also, from our observations and experience, advise its introduction into clubs, taverns, and places of public amusemt, where it would judiciously supersede vinous and alcoholic stimulants, seeing that it contains, as its name implies, lifeging ingredients in a form easily assimilated.

Fery Chemist that has introduced ZOEDONE has found a large and reularly increasing sale for it. It is put up in Champagne Bottles, and there isno trouble with empties, as the bottles are included in the price. Customers spplied with Pamphlets for distribution; also a special Circular for medical men stating the formulæ.

Orders should be anticipated by one week.

Report on the ZOEDONE of Messrs. Richard Evans & Co., of Wrexham.

The Analytical Sanitary Institution, 54 Holborn Viaduct, London, E.C., Sept. 21, 1878. I have carefully examined the new Aërated Mineral Water manufactured by Messrs. R. Evans & Co., and to which they he given the name of "ZOEDONE." I find the statements made respecting its composition to be fully borne out by the analysis. TI "ZOEDONE" is a bright, sparkling, and very pleasant beverage, quite free from medicinal taste; indeed, it forms a most ageable and elegant vehicle for the administration of the Phosphates of Lime and Iron which it contains, and which are ARTHUR HILL HASSALL, M.D., London, Author of "Food, its Adulterations, and the Methods of their Detection." in complete state of solution.

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ZCDONE is supplied direct by us and our Agents on the following Terms, Cash Prices, including bottles and package, free on Rails at Wrexham-6/6 per dozen in half Champagne Bottles (in 6 dozen cases). 12/- per dozen in large Champagne Bottles (in 3 dozen cases). 6d. per dozen extra on small, and 1/- per dozen on large, for export, packed in casks or cases. Trade Terms on application.

WHOLESALE AGENTS:-

L(Non-Messrs. Allen & Hanburys. Messrs. W. Best & Sons. Messrs. Corbyn, Stacey & Co.	BRADFORD-Messrs. Harrison, Parkinson & Co. BRISTOL-Messrs. Ferris & Co.	LEEDS — Messrs. Goodall, Backhouse & Co. LEICESTER — Messrs. John Richardson & Co. LIVERPOOL — Messrs. Clay, Dod & Case.							
,	Messrs. Edwards & Sons. Messrs. Evans, Lescher & Evans. Messrs. Heron, Squire & Francis.	CHEITENHAM-Mr. Joseph James. Cork-Messrs. W. & H. Goulding.	, Messrs. Evan, Sons & Co. , Messrs. Raimes & Co. , Messrs. R. Sumner & Co.							
,	Messrs. F. Newbery & Sons. Messrs. Savory & Moore. Messrs. Barclay & Sons. Messrs. S. Maw, Son & Thompson	COVENTRY-Messrs. Wyleys & Co. DUBLIN-Messrs. Hamilton, Long & Co. , Messrs. Johnson & Oldham.	" Messrs. Clay & Abraham. " Messrs. Symes & Co. MANCHESTER-Mossrs. James Woolley,							
	Messrs. S. Maw, Son & Thompson Messrs. Young & Postans, DEEN—Messrs. W. Paterson & Sons. Ast—Messrs. Grattan & Co.	" Messrs. A. & R. Thwaites & Co. EDINBURGH—Messrs. Duncan, Flockhart & Co. " Messrs. John Mackay & Co.	Sons & Co. NEWCASTLE-ON-TYNE-Messrs. Brady & Martin. NICE-Mr. J. Daniel.							
B	nngham—Messrs. Southall Bros. & Barclay.	GLASCOW-The Glasgow A pothecaries' Co. HULL-Messrs. Lofthouse & Saltmer. LANCASTER-Messrs. W. H. Bagnall & Co.	Northampton-Mr. Frederick Kirby. Paris-Hogg, 2 Rue Castiglione.							
	PATENTEE-DAVID JOHNSON, F.C.S.									
]	Janufacturers, RICHARD EVANS & CO., Wrexham, North Wales.									



IMPORTANT NOTICE TO CHEMISTS.

wing to the unscrupulous methods and false assertions employed by an irresponble vendor of India Rubber Porous Plasters, we feel constrained to state that our

INDIA RUBBER POROUS STRENGTHENING PLASTERS

ce guaranteed not to contain a single atom of Lead or any other ingredient calcu-Ited to injure the consumer; on the contrary, THEIR COMPOSITION IS PURE **EGETABLE**; in quality and general appearance they are unsurpassed by any raker, and can be obtained by the gross at £1 16s., less 10 per cent.

THE "LANCET."

"Messrs, SEABURY & JOHNSON have produced a list of Plasters, all made with India Rubber as a basis, which are elegant, stick well, are dole, easily adapting themselves to the folds of the skin, occasion no inconvenience to the patient, and have the appearance of being made with faith-fress to the British Pharmacopein. One Plaster worthy of especial praise is the Salicylated Isinglass: it is flexible, and on being slightly wetted mess agod adhesive plaster for surgical purposes."

THE "MEDICAL PRESS AND CIRCULAR."

"Among more recent and valuable Pharmaceutical improvements we would draw the attention of the reader to an elegant and convenient lot of Pters prepared by SEABURY & JOHNSON. We have recently tried some of them, and find them to be, severally, very neat, clean, and efficacions prations. India Rubber has been used as a base in the preparation of the Plasters, by which means the medicinal substances used are protected. We regard to their therapeutical efficacy, and the style in which they are got up, we can speak from experience. Among the other Plasters which have give statisfaction, we may mention those in which *Belladonna* and the *Spanish Fly* are, respectively, the chief ingredients."

"LONDON MEDICAL RECORD."

"Messrs. SEABURY & JOHNSON, of 28 Red Lion Square, London, have forwarded to us a series of Plasters made in a style which deserves warm pre. All of them are of the best make that we have yet seen, and, taken as a series, constitute a considerable improvement in the manufacture of d dnal Plasters, of which surgeons and physicians will, on inspection, easily realise the value. Their Salicylated Isinglass Plaster, spread on strong w.proof cotton cloth, and applied by wetting, is the best surgical adhesive plaster which we have seen. The plaster iself is made of pure gelatine, and is dispite in character; it adheres firmily and closely on being wetted with a sponge; it does not spoil in any climate. It is obviously from its mufacture calculated to last much longer than the ordinary adhesive plaster. The Mustard Plaster, the Capsicum Plaster, India Rubber Blister Fler, and Pitch Plasters are all equally deserving of commendation."

The "British Mcdical Journal," "Medical Times and Gazette," "Chemist and Druggist," and many of the Provincial Medical Jourlashave noticed our productions as worthy of special commendation. Our improved Pharmacopecia and Surgical Plasters in India Rubber mathematical objections found in the use of plasters, and present the following advantages and qualities, which will be appreciated by every Phieian, Surgeon, and Chemist :-

infect Cleanliness and Reasonable Price. rfect Pliability in any temperature. lhesion without Heat or Moisture. mbined India Rubber Prevents Decomposition. Being Porous they do not slide or move, thereby ensuring increased local action.

They remain serviceable longer than other plasters.

India Rubber Preserves the incorporated Extract or Drug.

Our Mustard Plasters are spread on Cotton Cloth instead of Paper. Our Isinglass, Court, Corn, and Bunion Plasters are all spread with Chemically-pure Fish Gelatine incorporated with rlic Acid. Fish Isinglass treated by our method of purification ensures an article that adheres quickly by the application of the slightest moisture;

Sa the Acid. Fish Isinglass treated by our method of purification ensures an article that adheres quickly by the application of the singutest moisture; in fittion to its more susceptible and greater adhesive properties it is rendered antiseptic.
Every Pharmacopeia Plaster guaranteed to be of Official Strength. We also manufacture in addition to our list of India Rubber Plasters, in the acaproved form and improved quality, Mustard, Silk, Isinglass, Medicinal, Corn, Bunion, and Court Plasters in great variety.
If our India Rubber Porous Strengthening Plaster possess any superiority over similar articles it is owing to an increased local action. All Porous Plast are packed two dozen in a box, and are fully warranted to give perfect satisfaction. We quote a few of the more prominent kinds, subject to the action of the more prominent kinds, subject to the subject to the singute set of the subject to the singuteset of the singuteset of the singuteset of the singuteset of the singuteset. 10 er cent. discount monthly.

		Size	e, 71 x 5.		Per doz.	Per gr	053.	Ŀ	Surgeons' Rubber Adhesive Plaster, 7 in. x 1 yd Per doz. Rolls £0 17 0	
Inc	Rub	ber Porous	Strengthenir	ng Plasters		£1 1	5 0		Mustard Plasters (10 in a box), on Cotton ClothPer doz. 0 I0 0	
5	33	,,	Arnica	,,		2 .			,, ,, (6 in a package) ,,, ,, 0 6 0	
	33	**	Aconite			2 1			" , (3 in a package) , , 0 3 0	
	33	,,	Belladonna (2 1			", yard Rolls, 6 x 36 ,, 0 10 0	
	33	,,					70		", 12-yard Rolls, 6x18 ,, 0 6 0	
	39	,,,	Opium (B.P.			3 1			Salicylated Isinglass Plaster, 5-yard RollsPer Roll 0 5 0	
	37	,,,	Poor Man's				4 0		,, ,, ,, 1 ,, ,, 0 1 3	
	39	**			Plasters 4 0	2			India Rubber Porous Strengthening Plasters, in 5 yard Rolls, 5 in.	
	39		Warming	,, (B.P.)	,0	2 I			widePer Roll 0 6 3	
1	22	Bellado	nna Plaster (I	B.P.), 7 in. >	I ydPer doz.	1	76		Ditto ditto in yard Rolls, ditto ditto Per doz. 0 17 0	
JL.(Rub	ber Bliste	r Plaster (B.I	?.), 7 in. x	I yd Per doz. Ro	olls 1	76		India Rubber Porous Belladonna Plasters, in 5 yard Rolls 5 in, wide	
ind	Rut	ober Capsic	eum Plaster	**	**	1	76	1	Per Roll 0 8 6	

BENSON'S CAPCINE POROUS PLASTER,

SEABURY & JOHNSON, 1 and 2 Australian Avenue, E.C.

Th nost active external remedy known, is a great improvement on the slow action of the ordinary Porous Strengthening Plaster, and was specially recommended by American Medical Jurors, as an article of genuine merit. Per dozen, 8s. 6d. 10 per cent. discount. Ou cods can be obtained from all Wholesale Druggists, Patent Medicine Dealers, and Druggists' Sundriesmen. Complete Price Currents of onr Plasters sent to any address on application. Inquiries and correspondence promptly answered.

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Sir HENRY JACKSON, Q.C., on proceeding to sum up in detail on the evidence and arguments in the case, was stopped by the VICE-CHANCELLOR in the following words :-

evidence and arguments in the case, was stopped by the VICE-CHANCELLOR in the following words: — Sir Henry Jaekson, I do not think I ought to trouble you. The case has been discussed at very great length. I confess somewhat to my astonish-ment when Mr. Hemming declined to adopt the evidence as it was before the same facts which had been proved before. I was under the impression that he meant to call witnesses on his own behalf. If that had been, as it probably may bave heen his intentiou at that time, there would have been a reason perhaps for repeating over again at very great length and eon-siderable expense, of course to somehody, the evidence upon which the Court of Appeal had acted—I say nothing about what was done in this Court, but the Court of Appeal had aeted upon that evidence. The ease, however, eoncludes, and no evidence whatever is adduced by the Defendant —not even his own statement in his Defeuee is verified by his own afidavit. What is to-he done with a ease like that? The whole prineiple of the case was decided upon the first occasion. The Court of Appeal hought it right to adopt that restriction which I had thought it right to adopt, not to extend the Injunction further than the then present exigency of the occasion required. Not one word of the judgment of the Court of Appeal shows that there should be any restriction, or that there should be any restriction when the case came on for hearing. Now it comes on for hearing upon precisely the same evidence, and the evidence, among other this grant the indexident which a descent which a first the origin the origin the origin the origin the origin the index of beat of the origin of the origin the origin the origin the origin of the origin of the origin the origin the origin of the ori restriction when the case came on for neuring. Now it could on the hearing upon precisely the same evidence, and the cridence, among other things, is, that in the circular which accompanies this bottle of Salt, the words to which the Plaintiff particularly objects are repeated by the Defondant and reneated by means of copying the Plaintiff's circular. Mr. words to which the Plaintiff particularly objects are repeated by the Defendant, and repeated by means of copying the Plaintiff's eireular. Mr. Giffard says nohody buying the bottle would think of looking at the circular, for it is euclosed in the wrapper, and not even visible to the eye. But the case is one in which the Plaintiff complains of the general similarity and the general appearance of the names which are used by the Defendant, and if a purchaser entertained any doubt, if he was puzzled for a moment between 'Vinous' or "Vinous,'' and Eno's-the sounds being, in one mode of pronuuciation, very much alike—if he opened the wrapper and read the circular he would say, My doubts are removed; this is what I want— I want Fruit Saline, and here it is -the eircular says it is "Fruit Saline." The Defendant in his statement at the end of the fourth paragraph says he has not "at any time Since the month of August, 1877, used the words Fruit Saline, or Fruit Powder, in any label or advertisement or otherwise

he has not "at any time since the month of Angust, 1877, used the words Fruit Saline, or Fruit Powder, in any label or advertisement or otherwise in connection with the sale of the said preparation." Under the old system if a defendant had put in his answer, as he must, upon oath, he might perhaps have read that passage and said "the Plaintiff's allegation in that respect is denied." The Defenee is not put in on oath and the Defendant declines to pledge bis oath to that fact. But it does not rest there; for the evidence is clear and conclusive that after the month of August, 1877, when the Plaintiff, not without some degree of forbearance, as it seems to me, was content to take the Defendant's word that he would not repeat that offence which the Plaintiff exampling the month of not repeat that offeuce which the Plaintiff complained was doing him that not repeat that offede which the Plaintin comparise was doing him that injury which he thought he was suffering, he did, in spite of his promise, repeat that which the Plaintiff called an offence and believed to be an injury to him. The case comes to a hearing, the Defendant insists upon the Plaintiff proving his ease. At the Defendant's instance the Plaintiff has proved his case, and, among other things, has proved the utter falsehas proved its before which is set up in the paragraph which I have read. The matter, therefore, is wholly without doubt, without defence, without excuse of any kind that I can perceive, because, when I am told that I must consider what the intention of the parties was, and when I am told, more-over, that there is no evidence that anybody has been deceived, and the Defendent is bid advance arear peaked has been deceived, big intration to over, that there is no evidence that anybody has been deceived, and the Defendant in his defence says nobody has been deceived, his intention to deceive is not contradicted. That is what the Plaintiff imputes to him; and that is what, I think, the Plaintiff establishes not only from the simplicity of the sign, but from the fact that, when the complaint was first made in August, 1877, they were words which the Defendant admitted he had no right to use. For what reason? Because they were calculated to deceive-calculated to represent the Defendant's goods as those which the Plaintiff was selling under the title which he had adopted. Upon the general case, therefore, in my opinion, the matter is beyond all donbt. It is proved that the use of the word "Fruit" with other substan-tives "Saline" and "Salt," and so on, has been made by the Defendant since the time when he promised not to make it, when he admitted it was unlawful, and which I have no doubt whatever was wholly unlawful. It is

tives, "Seline" and "Salt," and so on, has been made by the Defendant since the time when he promised not to make it, when he admitted it was unlawful, and which I have no doubt whatever was wholly unlawful. It is said that he endearoured to keep his promise hy pasting something over the word "Fruit." Well, if that meant anything it is a plain admission of the justice of the Plaintif's claim in that respect. But how ean I consider that that is keeping his promise? Whether that pasting over was to be effectual or not would depend upon the eonsistency of the pastor glue, or perhaps the humidity of the atmosphere or any other accident. That there was no intention to perform his promise. I am satisfied of, and that there has been no performance of his promise I think is clear. Upon the general case, therefore, I think the Plaintiff is entitled not only to the Injunction in the terms of the Interlocutory Order, but upon those more extensive terms which the Plaintiff asks, hy his claim, should be applied to the Defendant's infringement of his rights. Then there is another subject which is so intimately connected with that that I desired to hear them both together, and I am very glad I did, because, as Mr. Giffard has just told me, that is the main question in dispute between the parties. For the Injunction the Defendant does not seem to care much, though he has violated it, in my opinion, plainly ; but he says the question is whether there is a title to register this Trade Mark for which the Defendant proposes to apply. Now that depends upon the words of the Act of Parliament which have been used, the more important of which are "so resembling as to be calculated to deceive." That is a question not to be decided by eyesight; I am invited to 194 these two evices side by side, and, since they are not identical and since there are

great differences in their external appearance, to decide that they are no calculated to deceive. To that word DECEIVE I have no right to criticia calculated to decrive. To that word DECRIVE I have no right to criticity or quarrel with; it is need in the Act of Parliament, and if I were to giv one sense to it, it is plainly in my judgment calculated by the Defendant meant and intended by him, to deceive any person who is not vigilan enough either in eye or in ear to detect at once the difference betwee Vinous and Eno's, and the difference between Fruit Salt and any other salt Eno's title being pleinly upper bit Trade Work. Envice Fruit Selt

enough either in eye or in ear to detect at onee the difference between Vincous and Eno's, and the difference between Fruit Salt and any other salt Eno's title being plainly upon his Trade Mark, Eno's Fruit Salt. It is not, as I have said, by sight; it is not hy the use of a microscope it is by any other means of detecting more or less of resemblance that yo can decide a question which the statute contemplates hy using the word that I have referred to. Bat it is whether the Registrar, whose office it is by any other means of detecting more or less of resemblance that yo can decide a question which the statute contemplates hy using the word that I have referred to. Bat it is whether the Registrar, whose office it is to register, is satisfied before he performs his function by registering the mark, that the applicaut's mark does so resembla to be calculated -deceive. Can any living man doubt that it is not only calculated -that it intended—but that it is also calculated—that is to say, meant and contrive for the purpose of deceiving—else why does he do it? The world is wide as has been said in the Judgment referred to, and all things in the animat and inanimate world are open to the Defeudant to make a device which shall distinguish his goods from those of any other person. But the Plaintiff having appropriated to himself, and enjoyed for years a device in which the principal characteristic consists of a bunch of grapes, with I Latin motto, and the specifie description which relates to Eno's Fruit Salt the Defendant proposes to register a design in which the principal devic is the stem of a vine with a bunch of grapes and some leaves, and a Lati motto around it, and it is to be called " Vinous Salt," If there was nothing on sufficient resemblance ; but the Registrar is bound to take the whole case into his is not the way that the Court of Appeal, in the latest case that was before it.-Sheffield case_dealt with the question. The Defendant there had as good a rights anybody in the world evid have to starp his wow

Mr. HEMMING :- Your Lordship will pardon mc, I was only quoting

and the persons to be deceived. I have a very clear recollection of that case, and missile the device in that case for the device which the Plaintiff desired there to us Mr. HEMMING :—Your Lordship will pardon mc. I was only quotin the Master of the Rolls. The VICE-CHANCELLOR :—I know, and have also clearly in my min what the Master of the Rolls and and what he did notonly in the "D g and Porfd: Pot" case, but in that case. The Master of the Rolls' judgment takes a wide and comprehensive view of the subject. He refers to the statute only for the purpose overlying and corroborating that view, but what he said was "an honeer man whe wants to mark his goods never thinks of taking the device partly or wholly while some other tradesman is employing for the purpose of marking his goods." Take that I take to be the true principle of the case. The taking all these things together, the Plaintiff sevidence in the first place, the done wrong in using the word "Fruit." I am asked to say that there is no set resemblance between those two devices as, hetween those two men, are calculated to misted in reference to the commodities tendered in the slame in which they are ken instead in reference to the commodities taking all they are stated with the bill prays for it, extending it there is no set resemblance between those two devices as, hetween those two men, are calculated to misted in reference to the commodities taking and they are ken instead in reference to the commodities taking all they are ken. The view of the statute dut that the state the device of a branch of a view is to mend off the statute dut that the state the device of a branch of a view is to mend off the statute dut the trade as the belendant will not pledge here to the off the state dut the take as the belendant will not pledge here to the off the state dut the take as a state. Device and upon the motion to say that the plendant is not entitled to register the device of a branch of a view is the word of the state of the there is an advect the costs of bot.

Mr. HEMMING :--Inat does not mean any transcript data no transcript taken. Sir HENRY JACKSON :--I have the transcript here, and I was prepare to sum up this morning. Mr. HEMMING :--There was no occasion for it. Sir HENRY JACKSON :--I do not want of course the costs of any of the speeches: I merely take the transcript of the shorthand notes of the evidence. The VICE-CHANCELLOR :--I think that must be so, heeanse for any thing I know this day week the Lords Justices will have them in their hands. Mr. HEMMING :--Then would he time to ask for it, sit HENRY JACKSON :--My Lord has decided.

Mr. HEMMING :--- Inen would be time to ask to Sir HENRY JACKSON :-- My Lord has decided.